

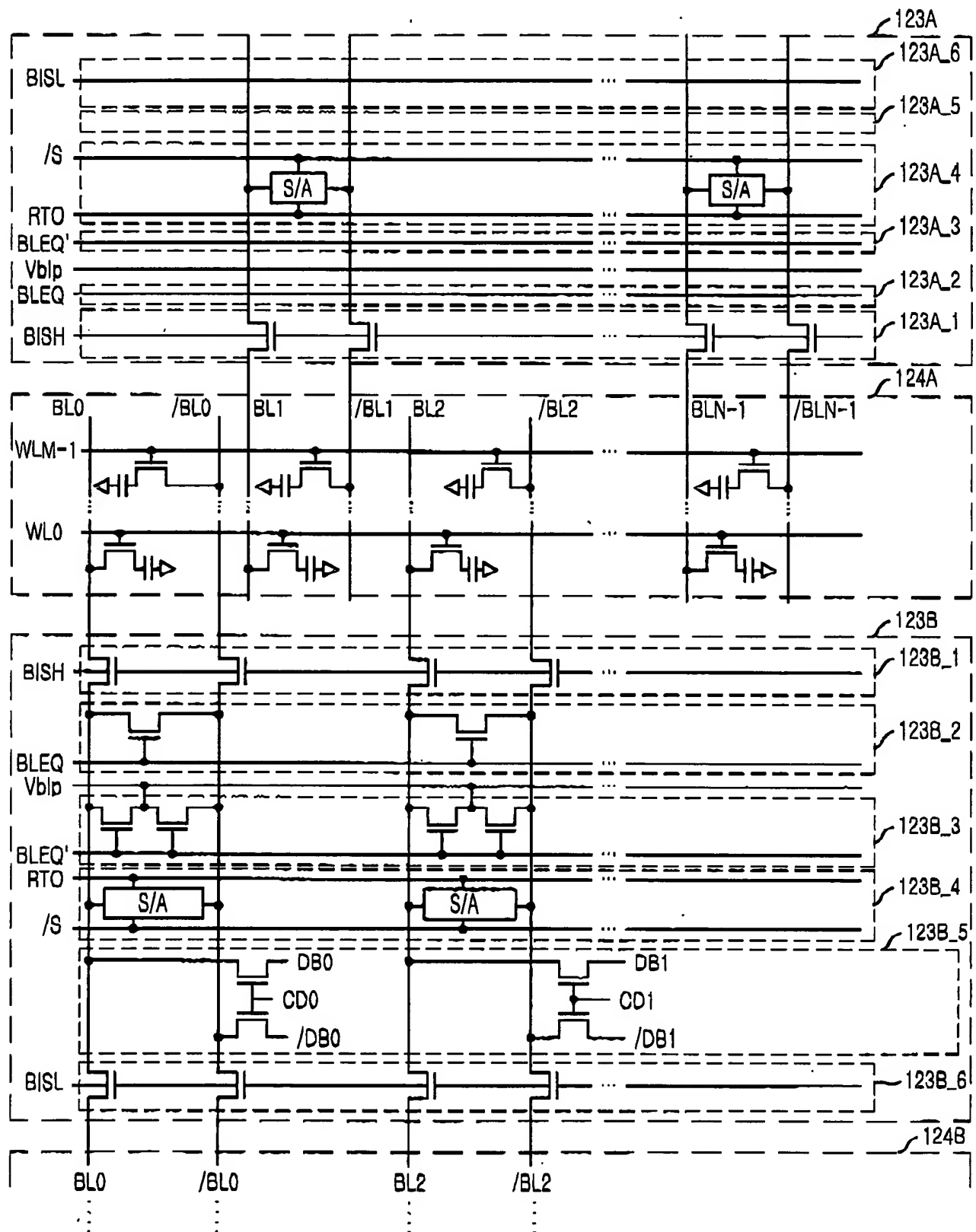
FIG. 2
(PRIOR ART)

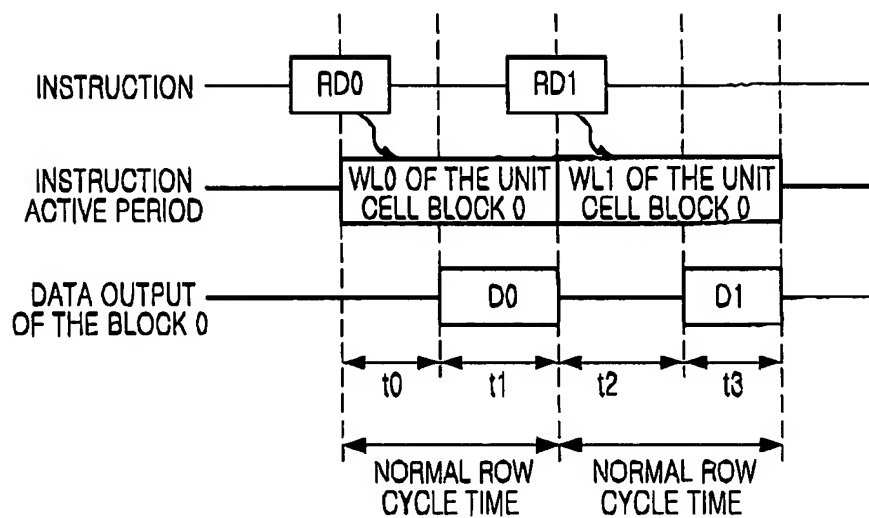
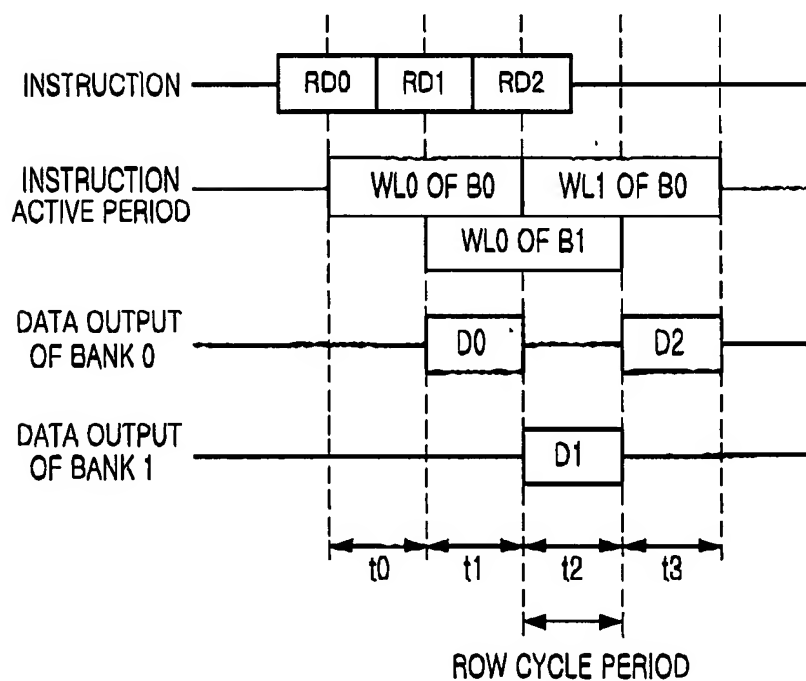
FIG. 3
(PRIOR ART)FIG. 4
(PRIOR ART)

FIG. 5

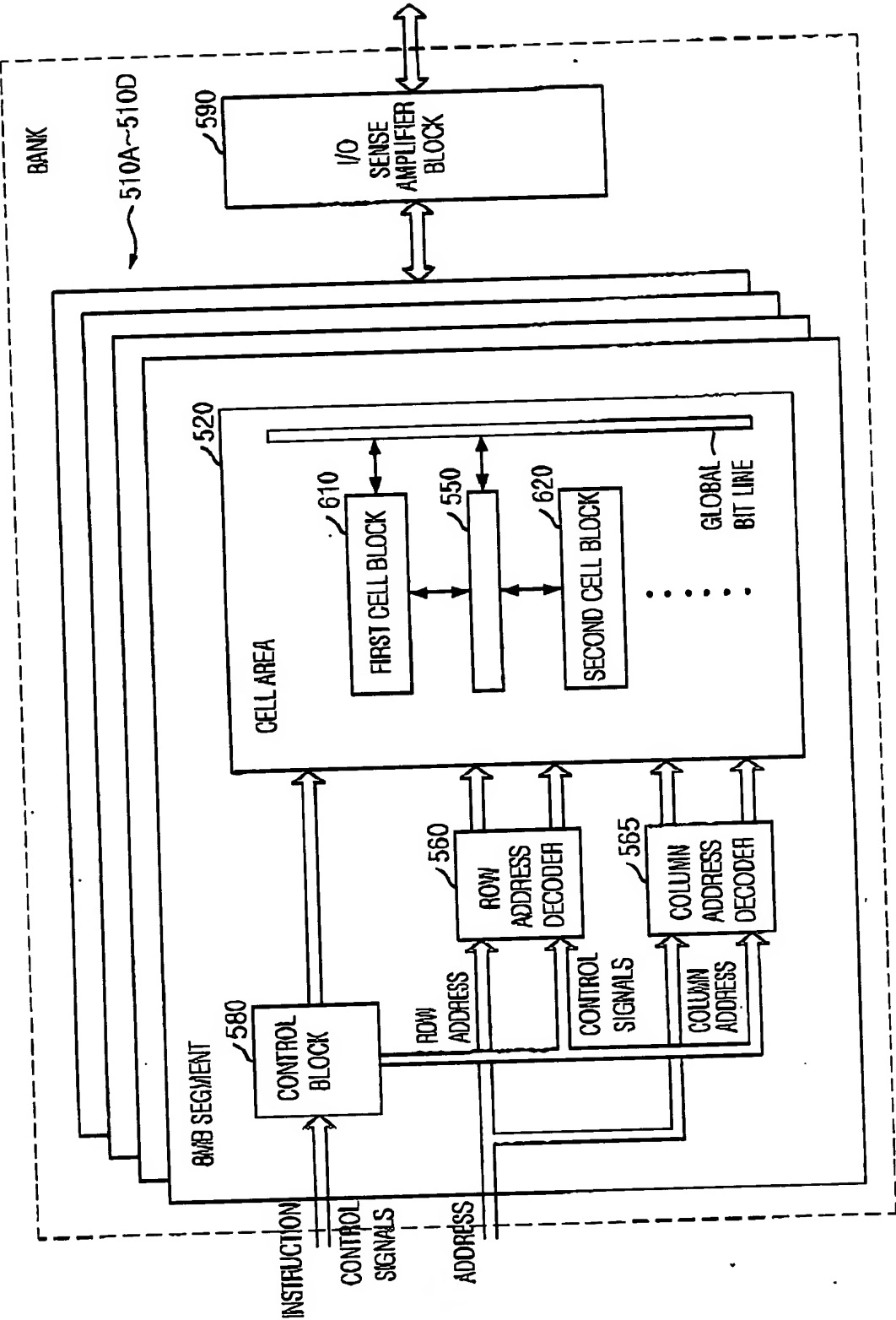


FIG. 6

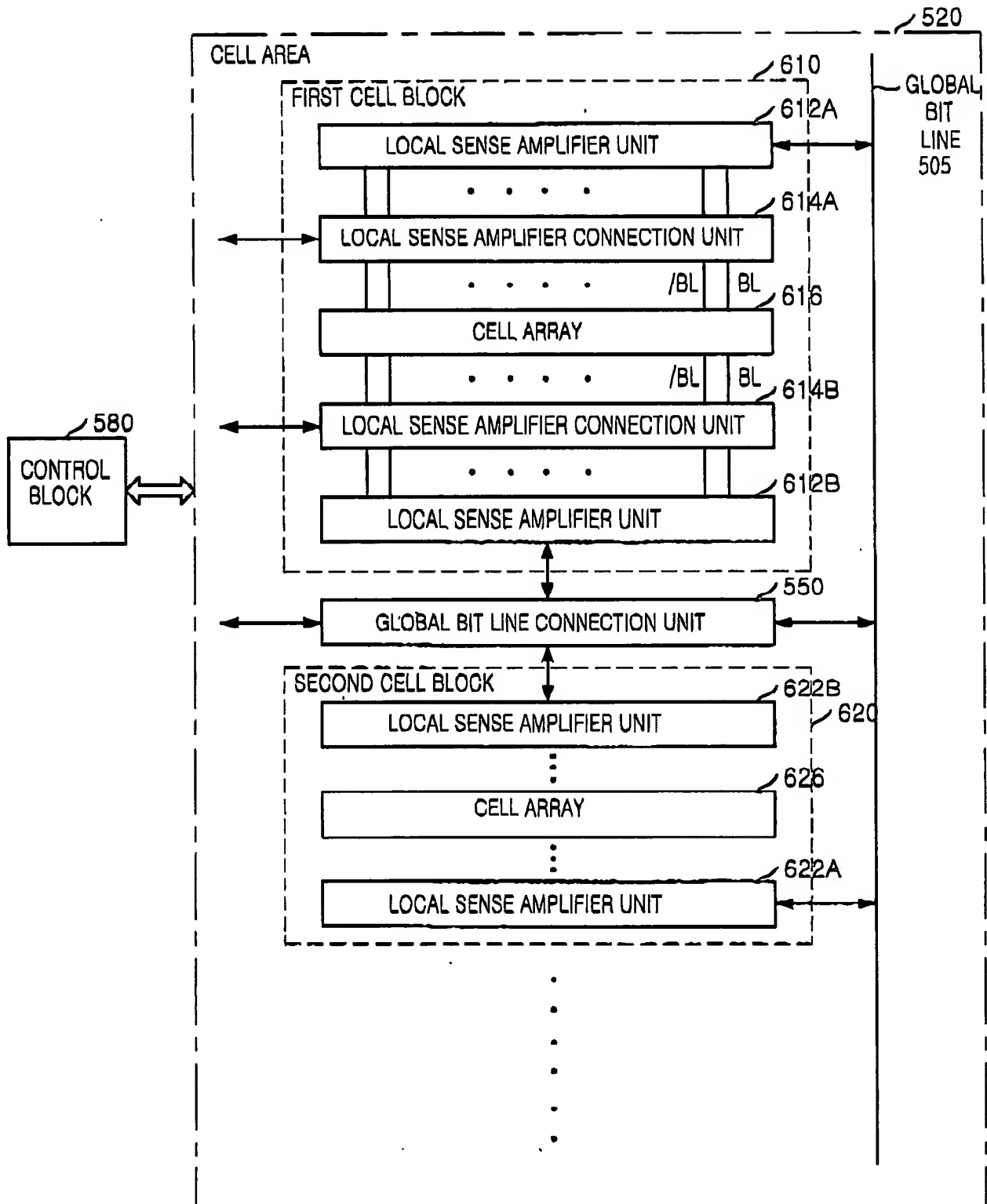


FIG. 7

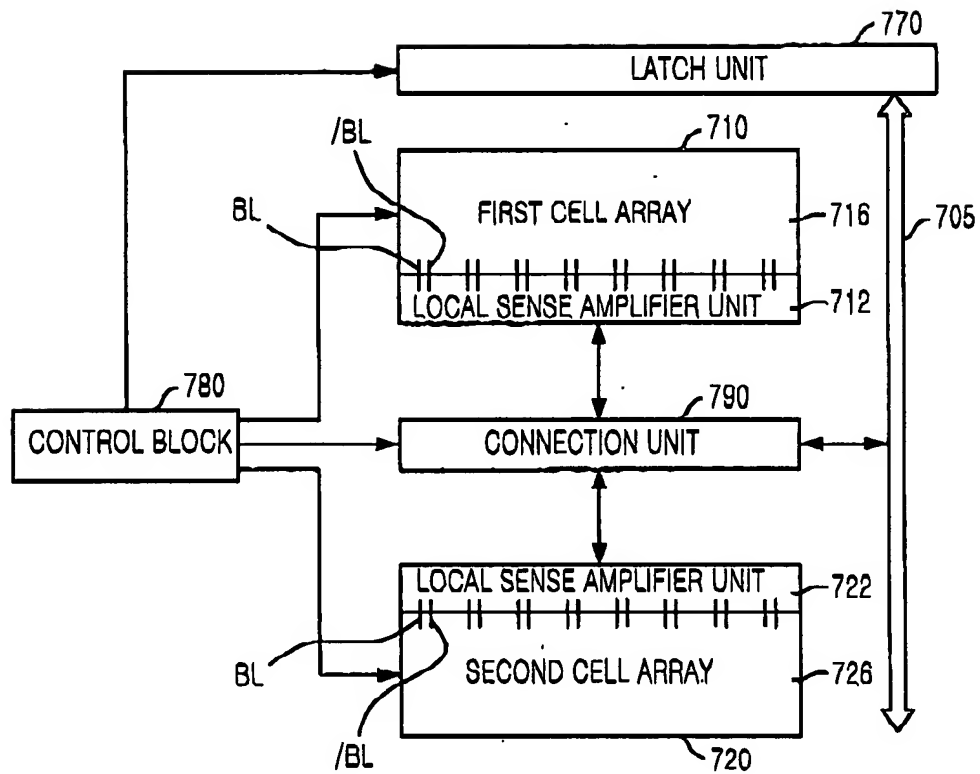


FIG. 8

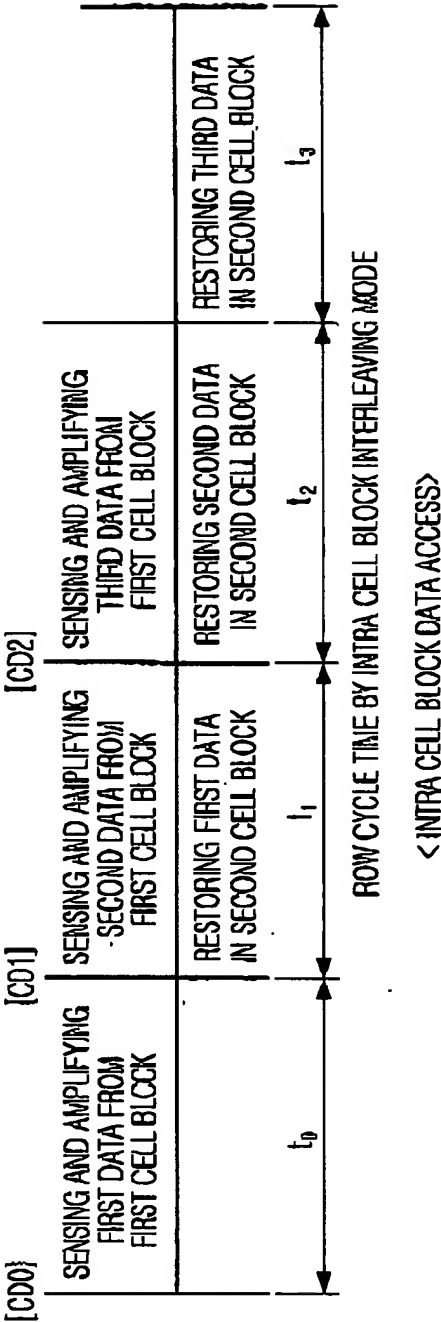


FIG. 9

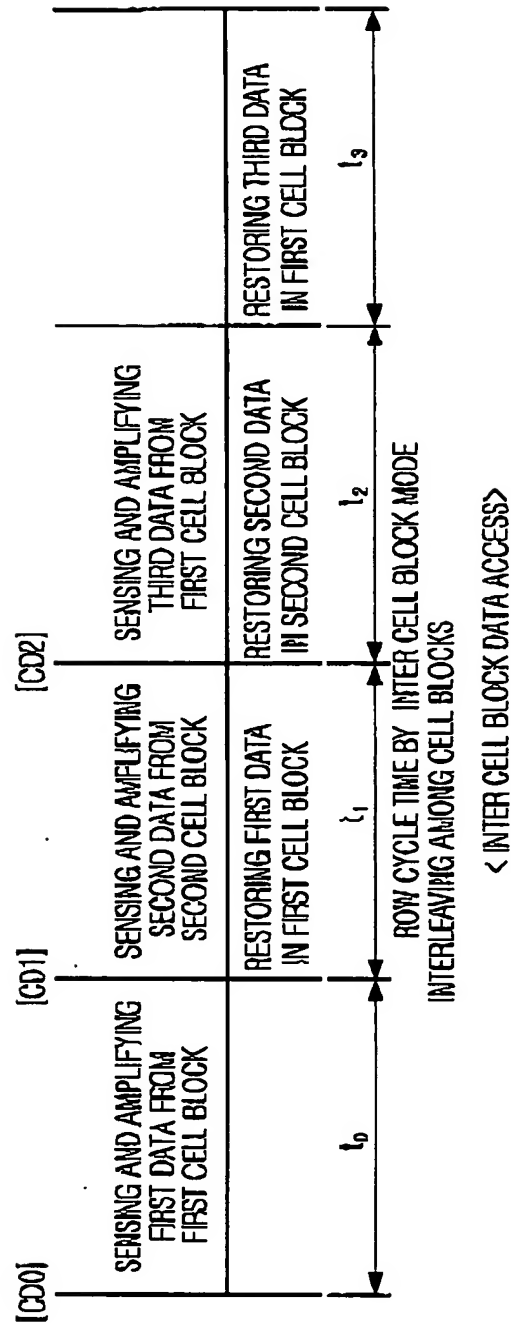
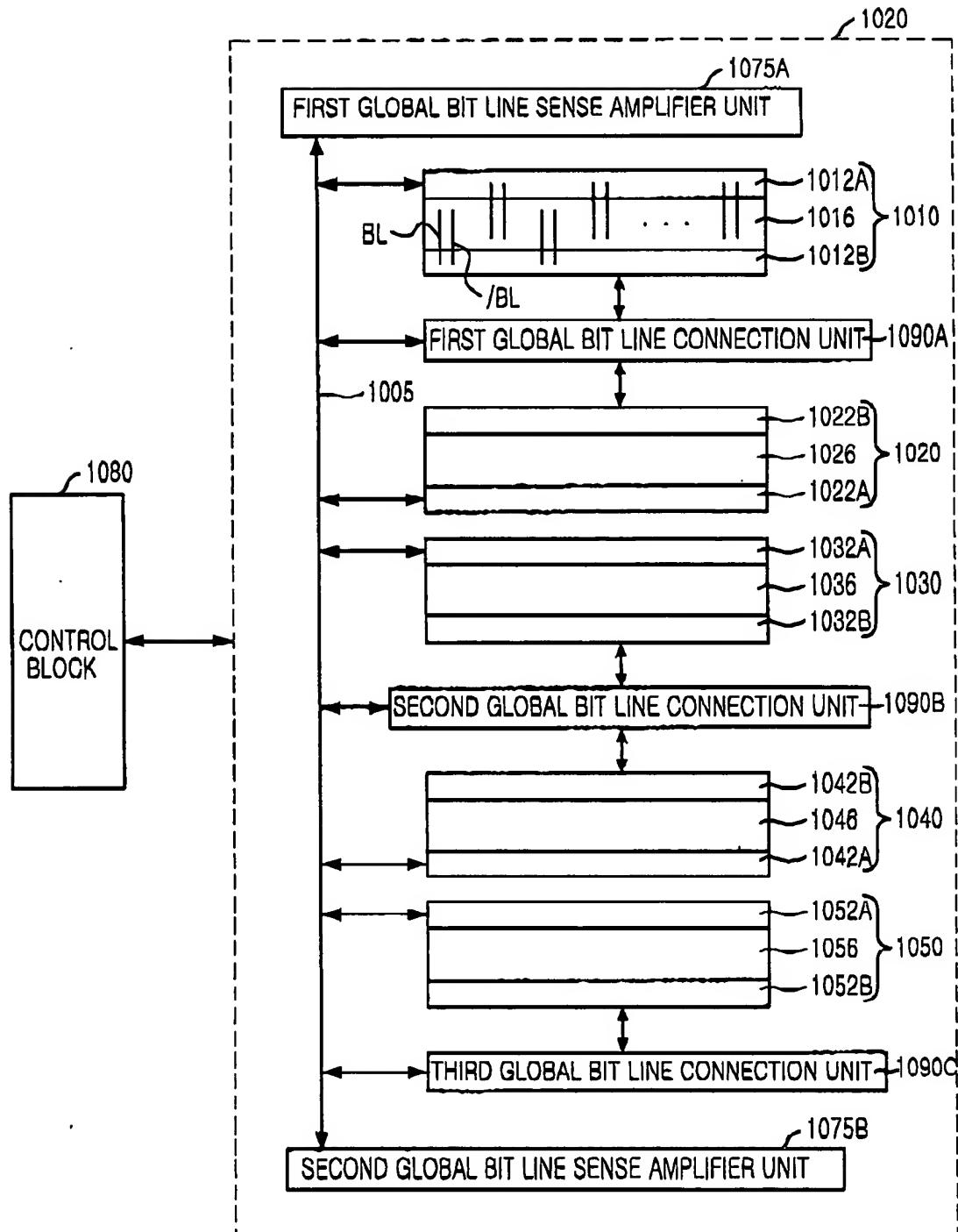


FIG. 10



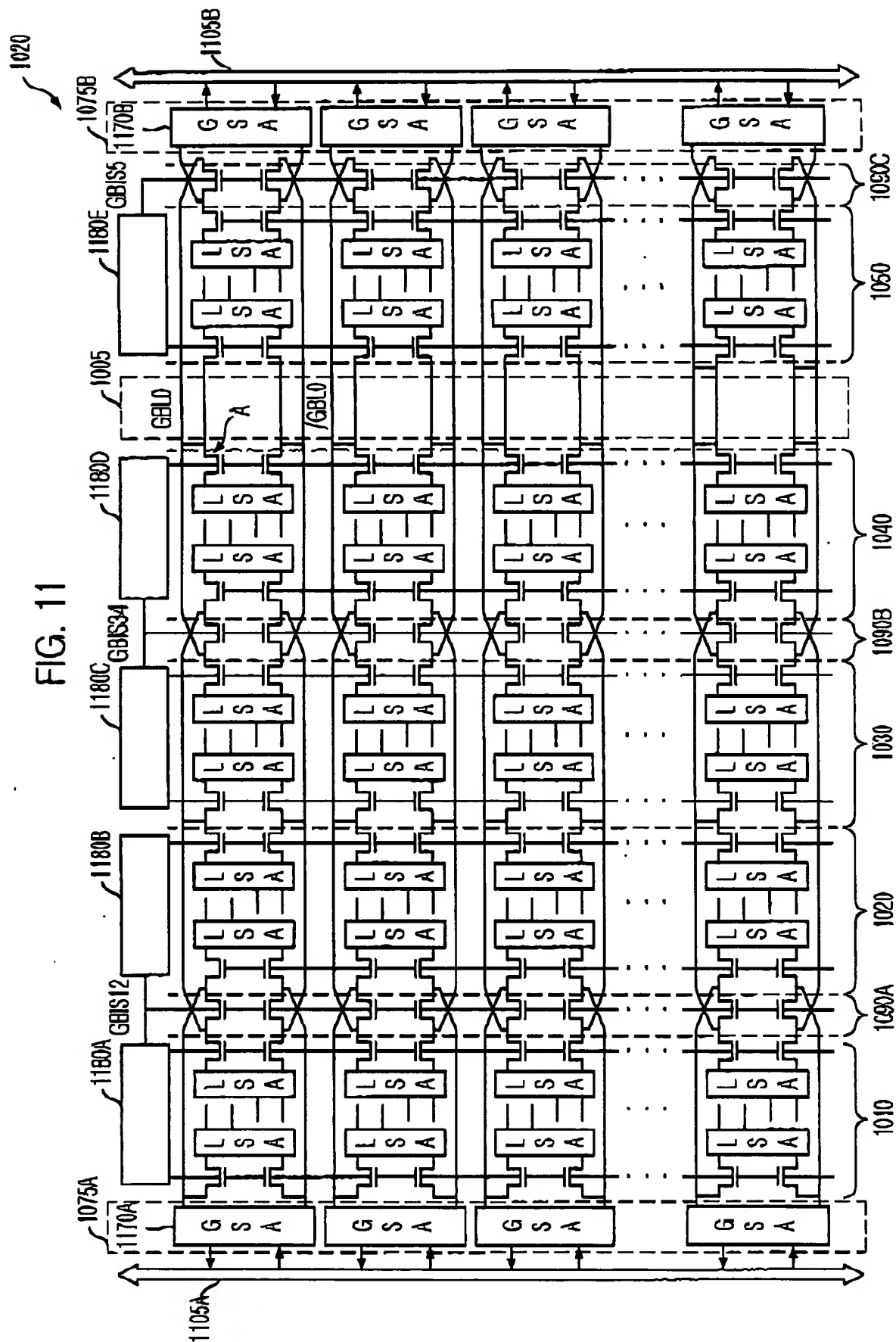


FIG. 12

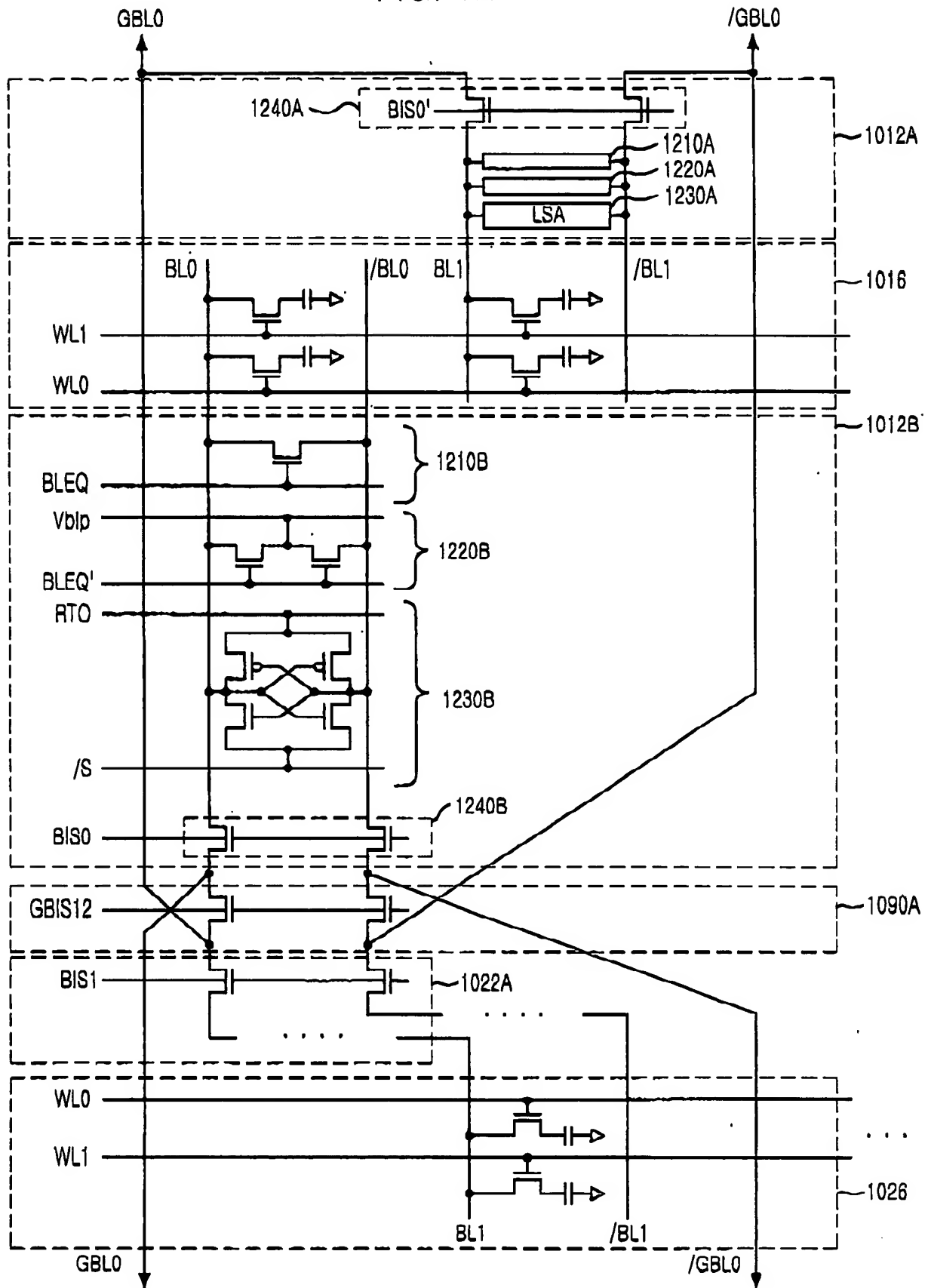


FIG. 13A

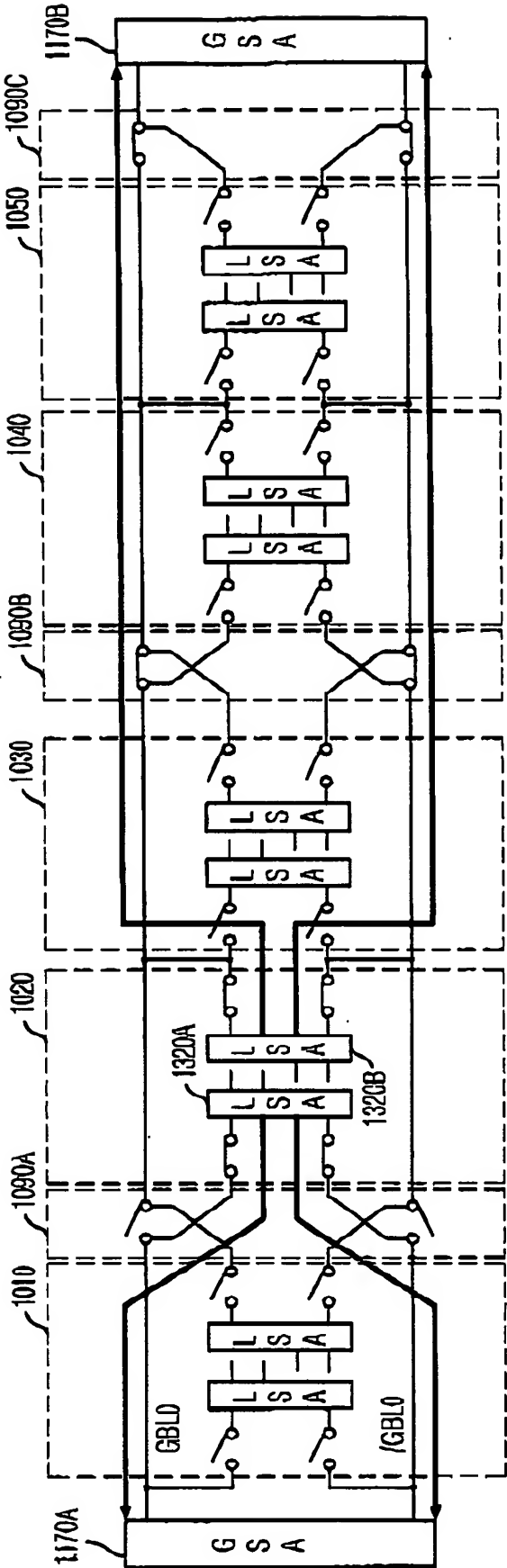


FIG. 13B

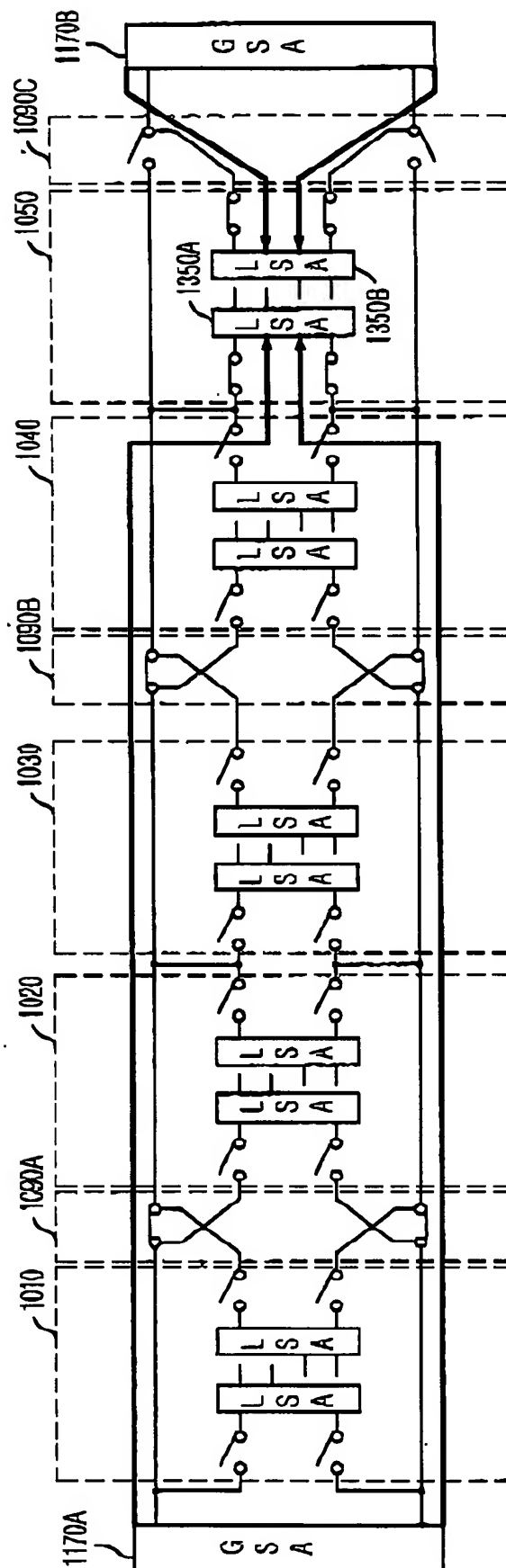


FIG. 13C

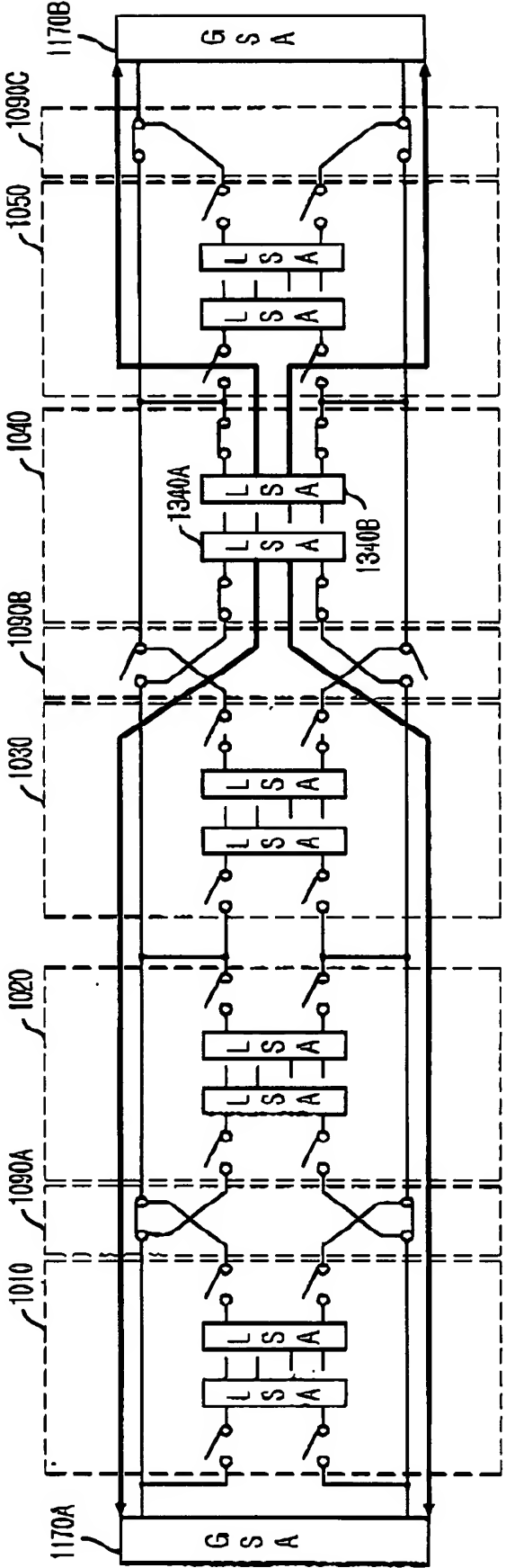


FIG. 13D

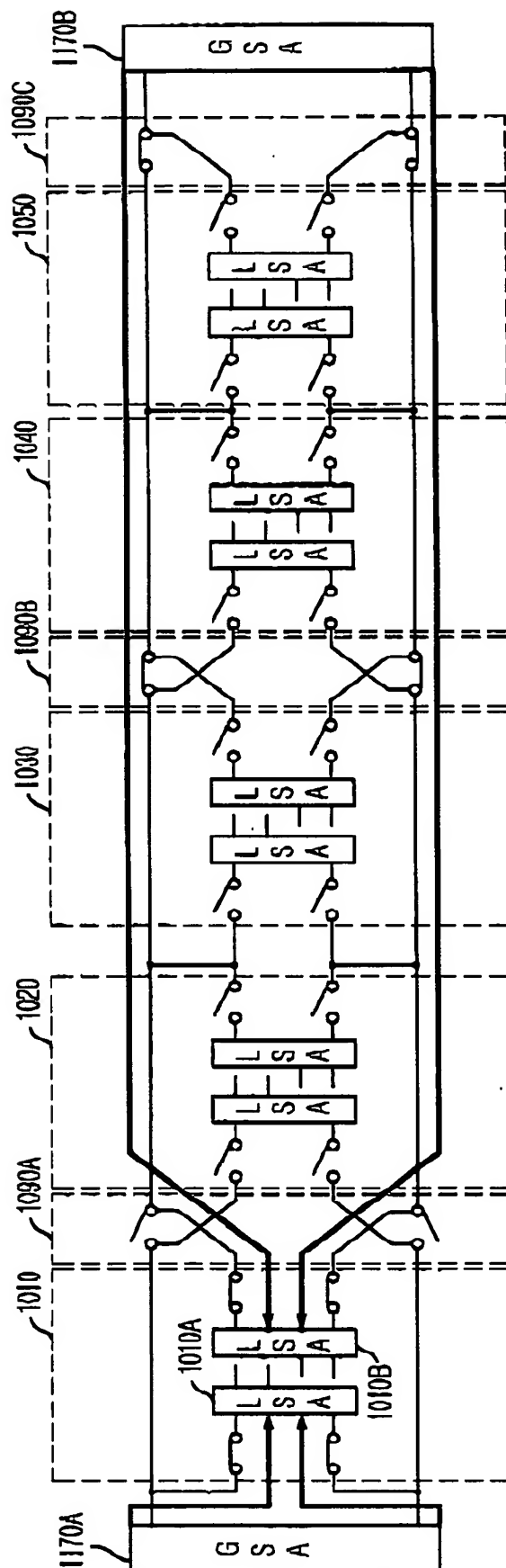


FIG. 14

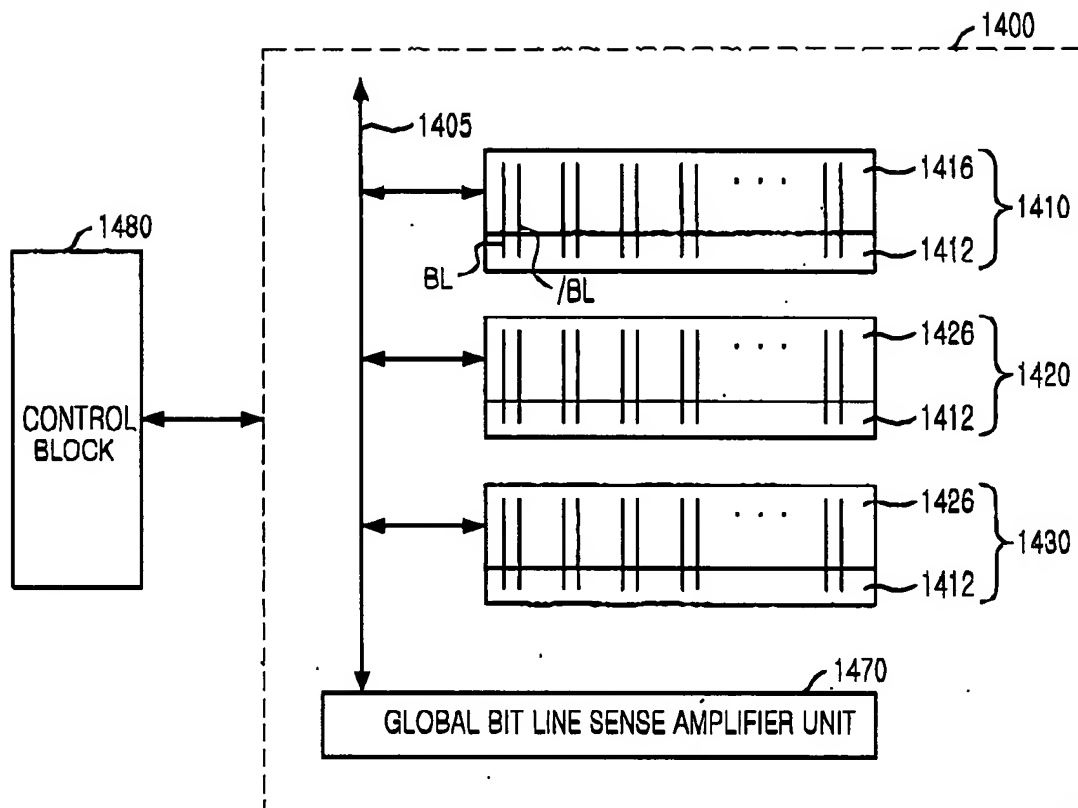


FIG. 15

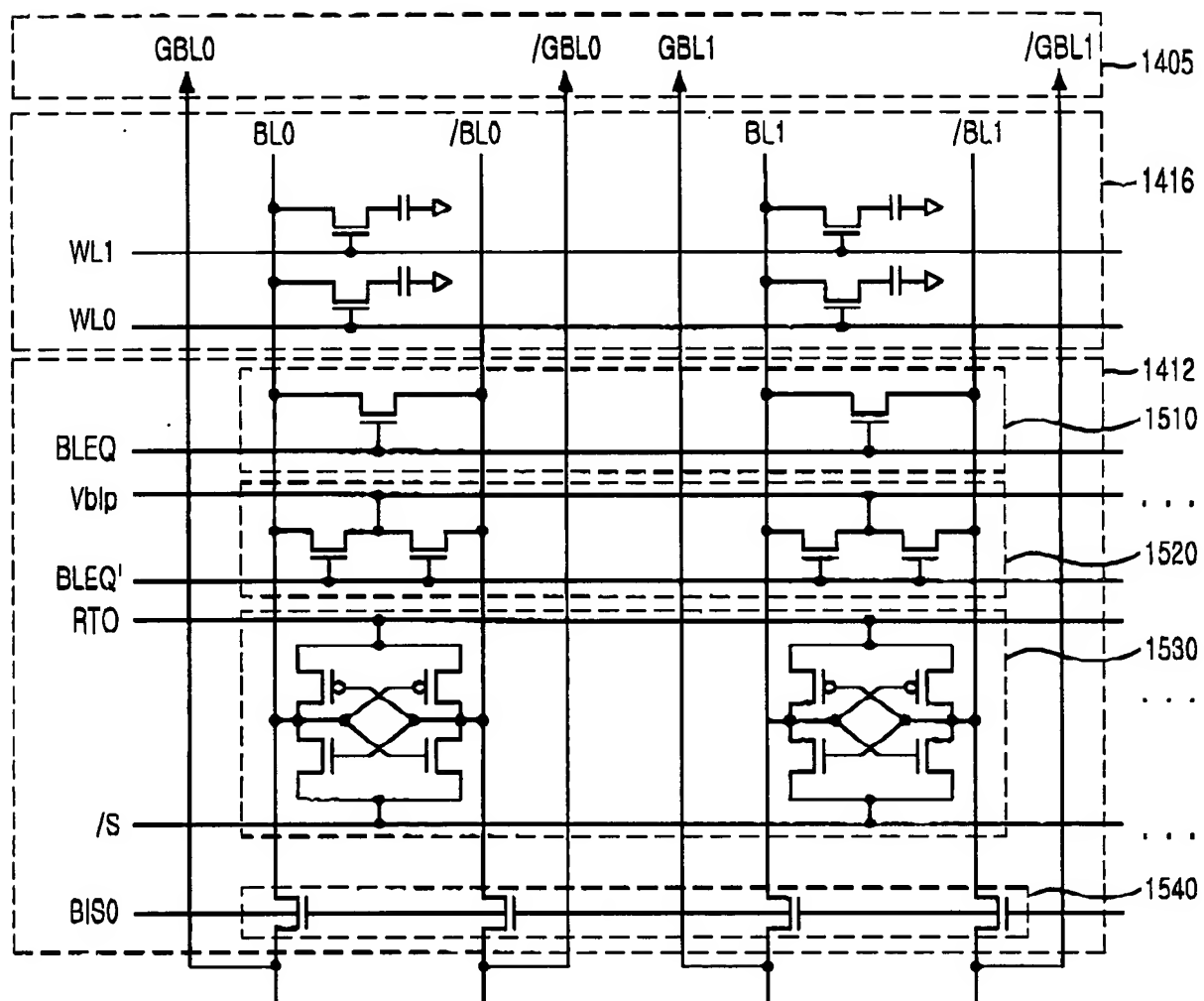


FIG. 16

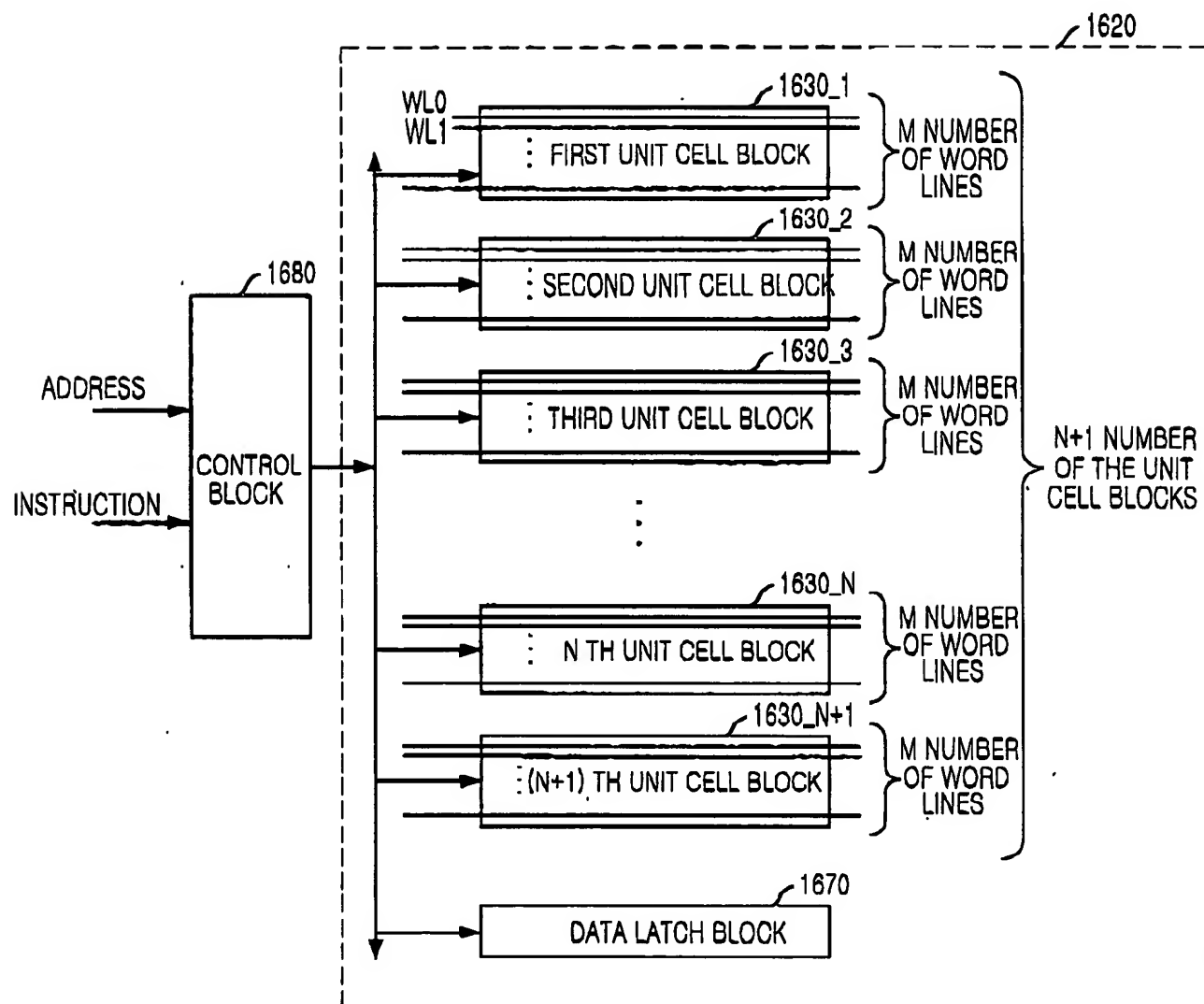


FIG. 17

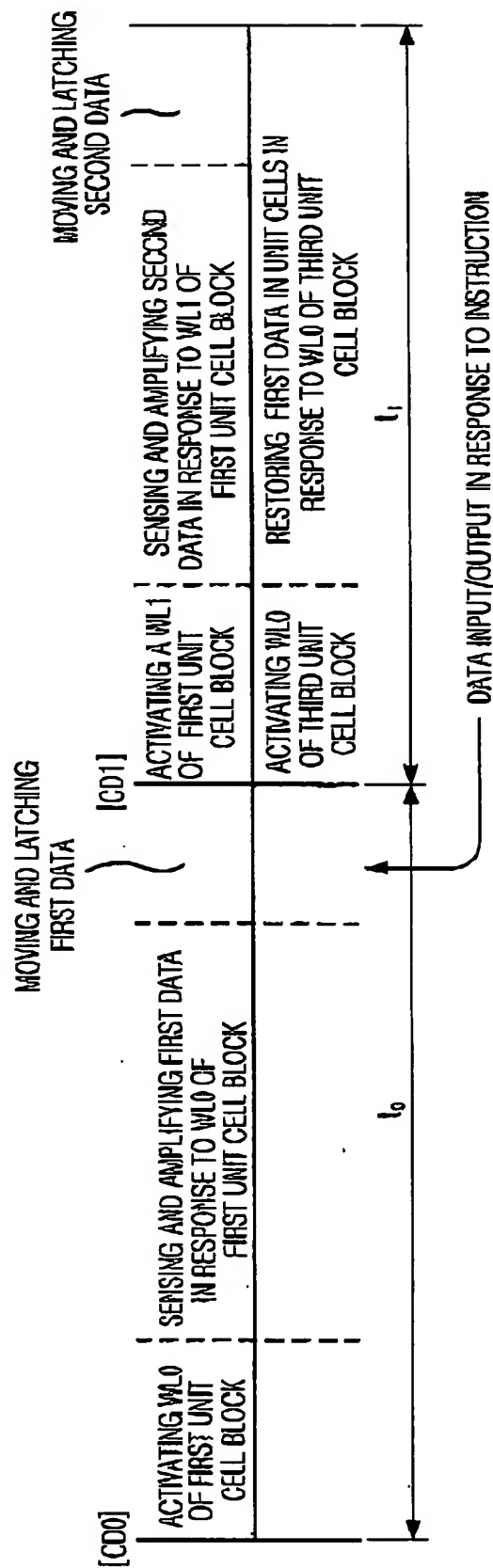


FIG. 18

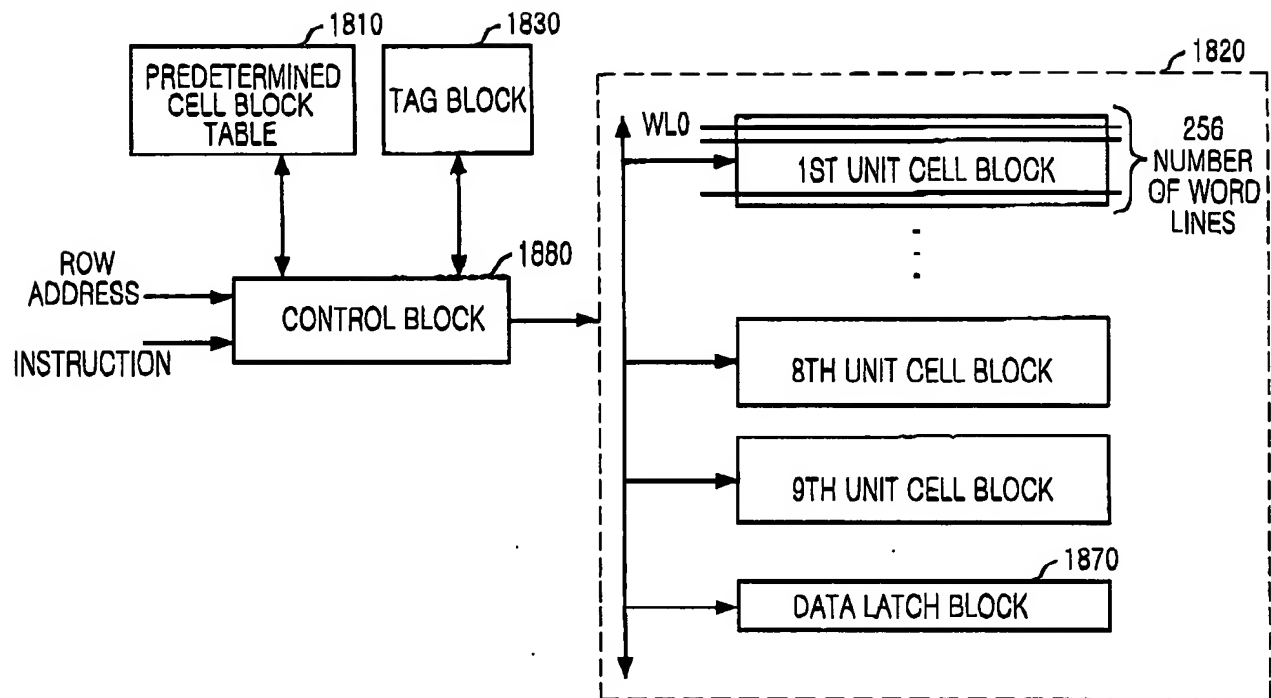


FIG. 19

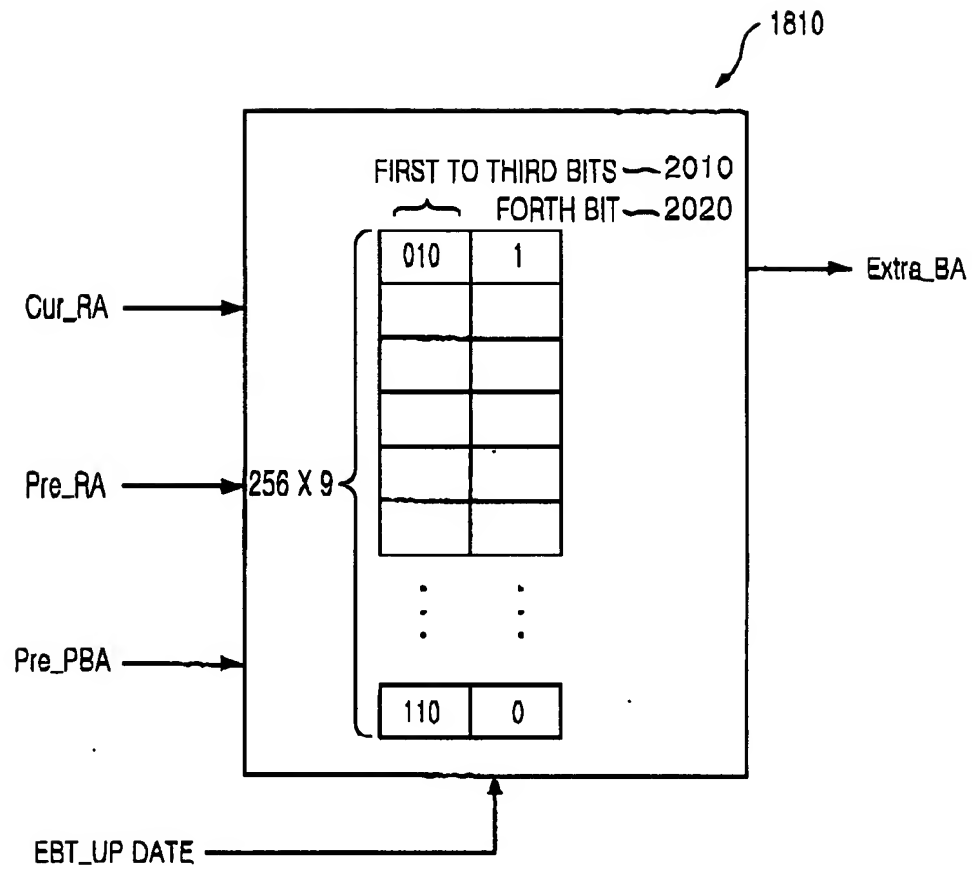


FIG. 20

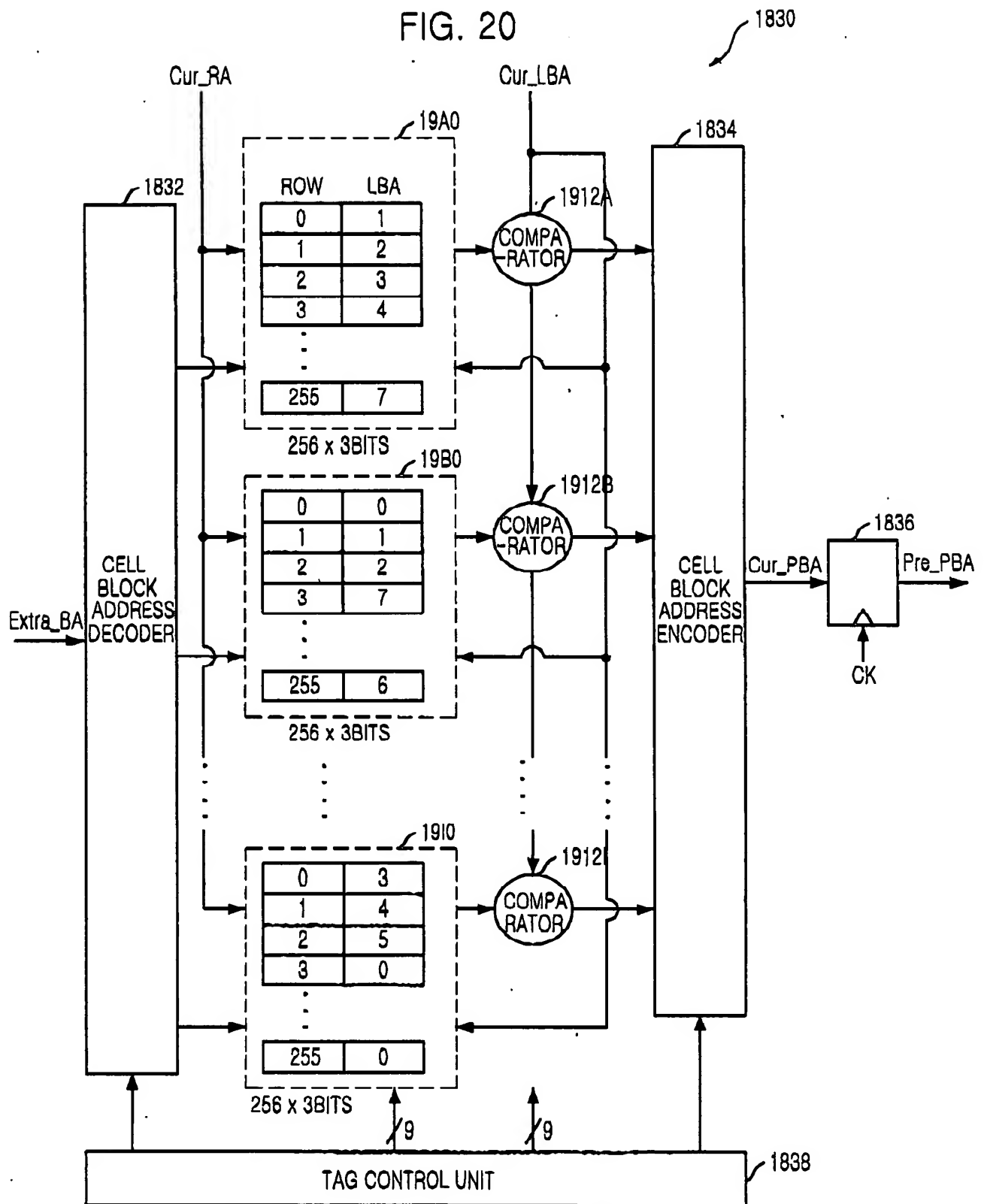


FIG. 21

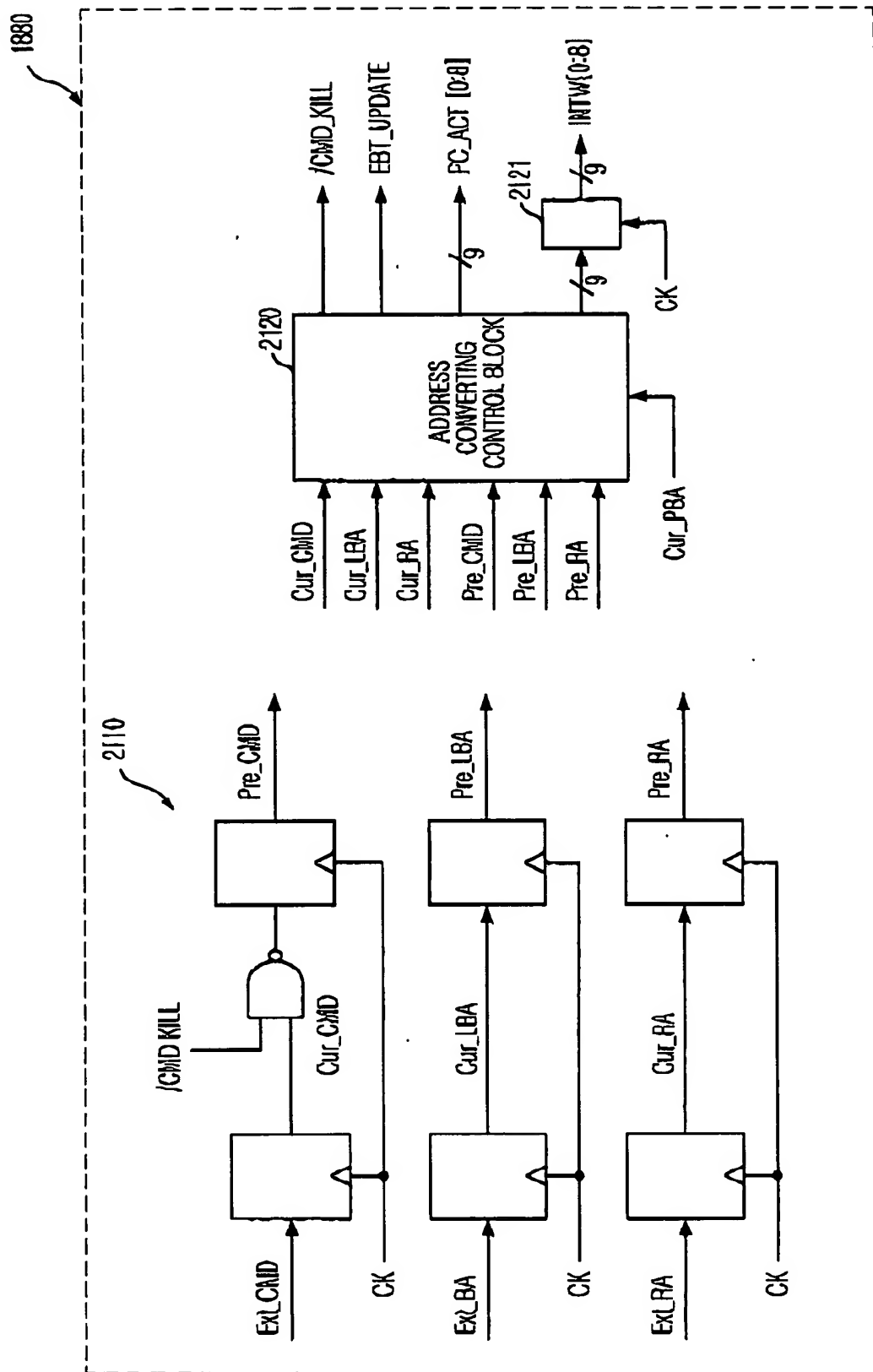


FIG. 22

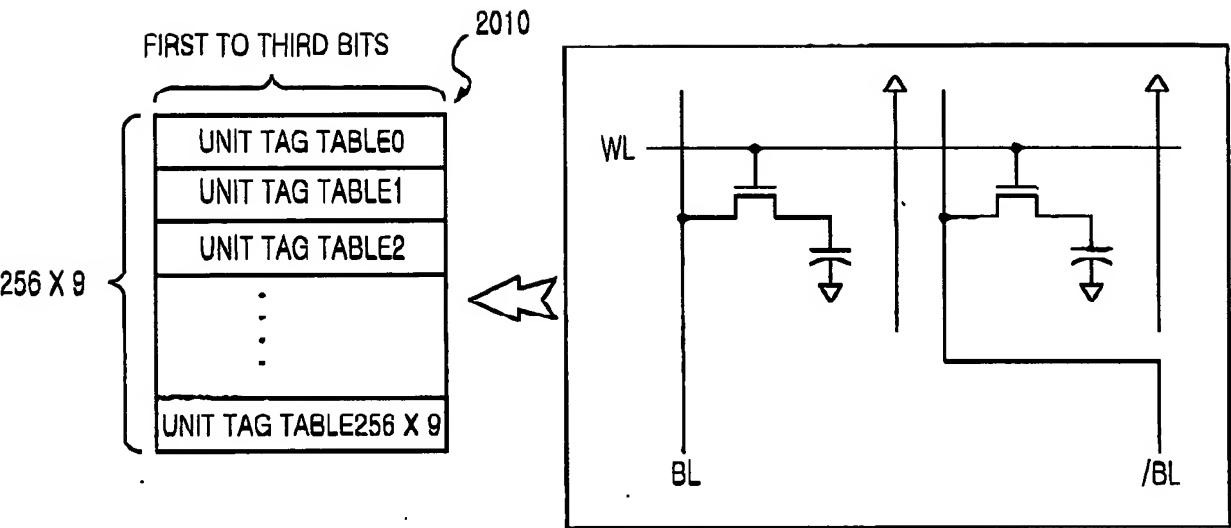


FIG. 23

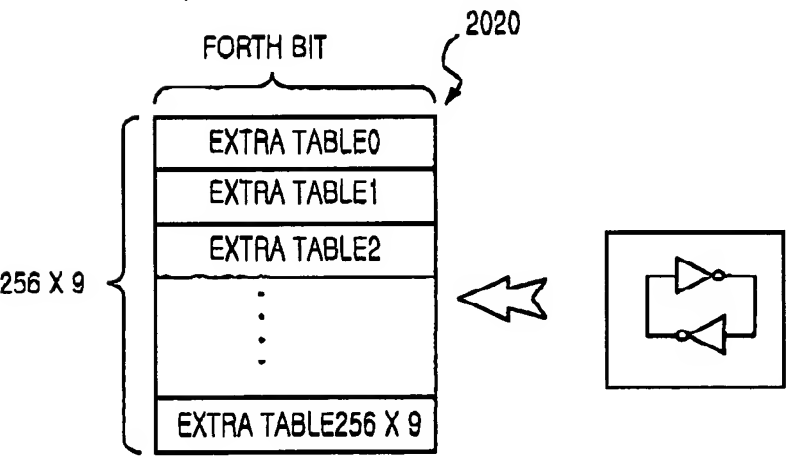


FIG. 24

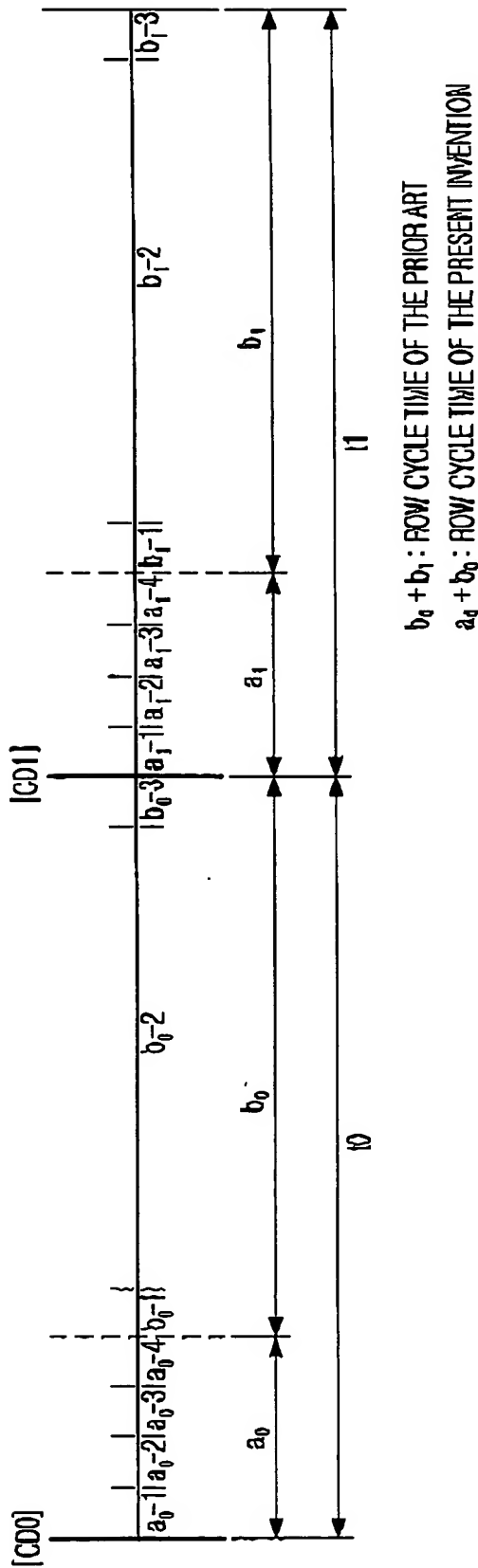
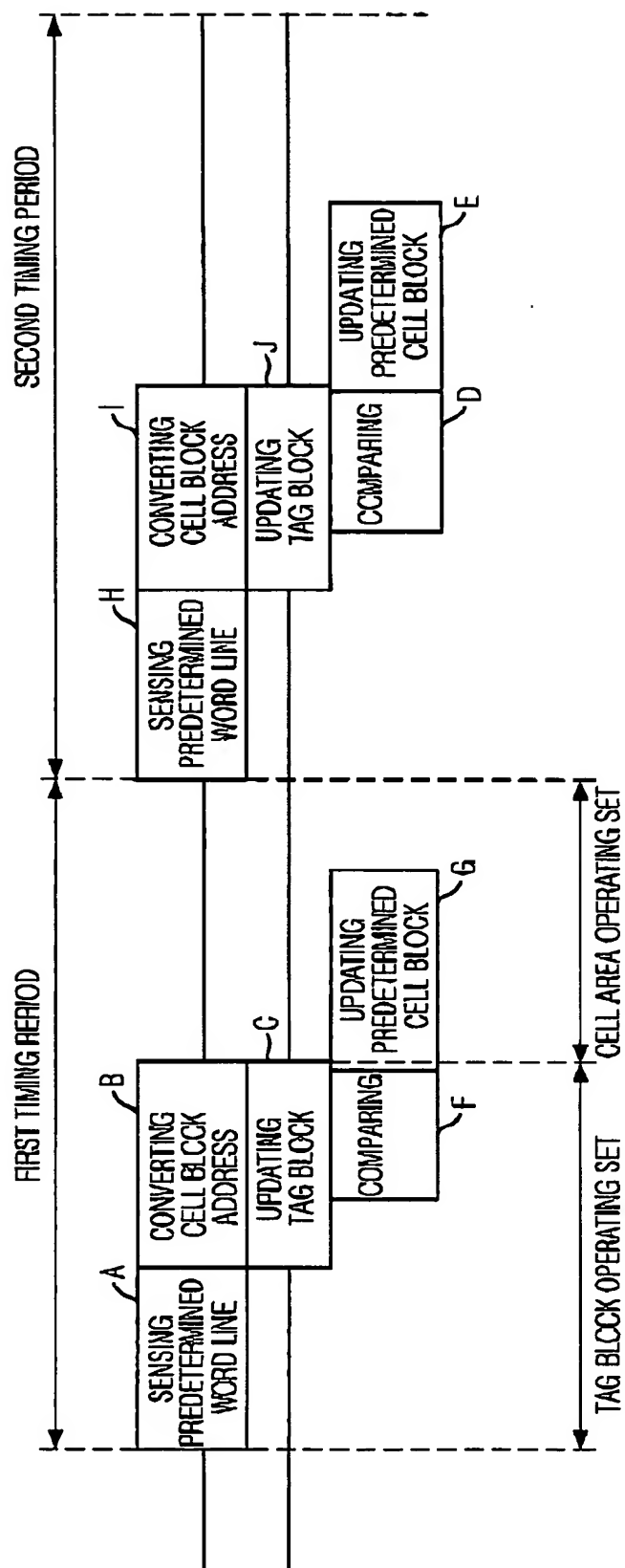


FIG. 25



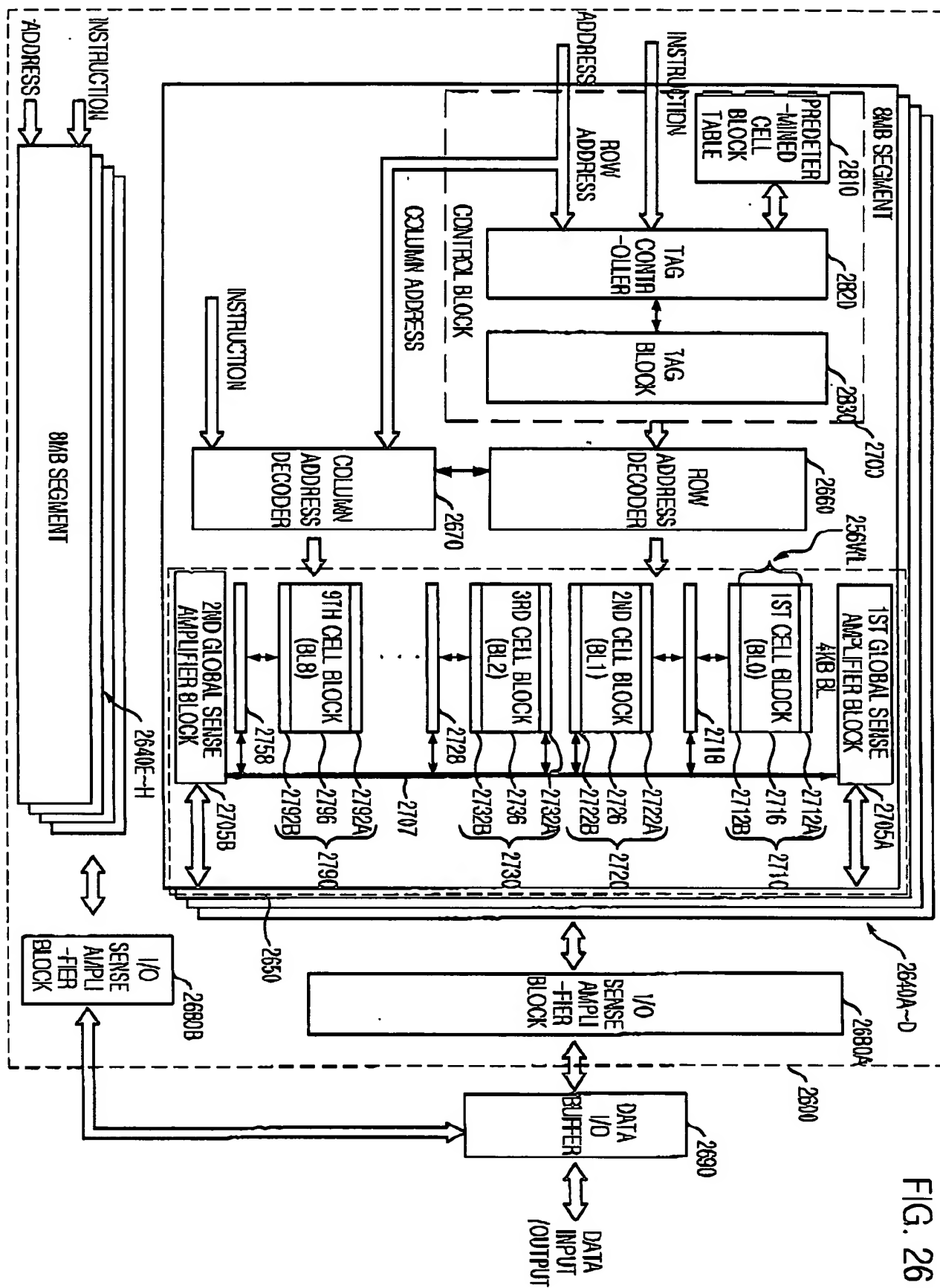


FIG. 27

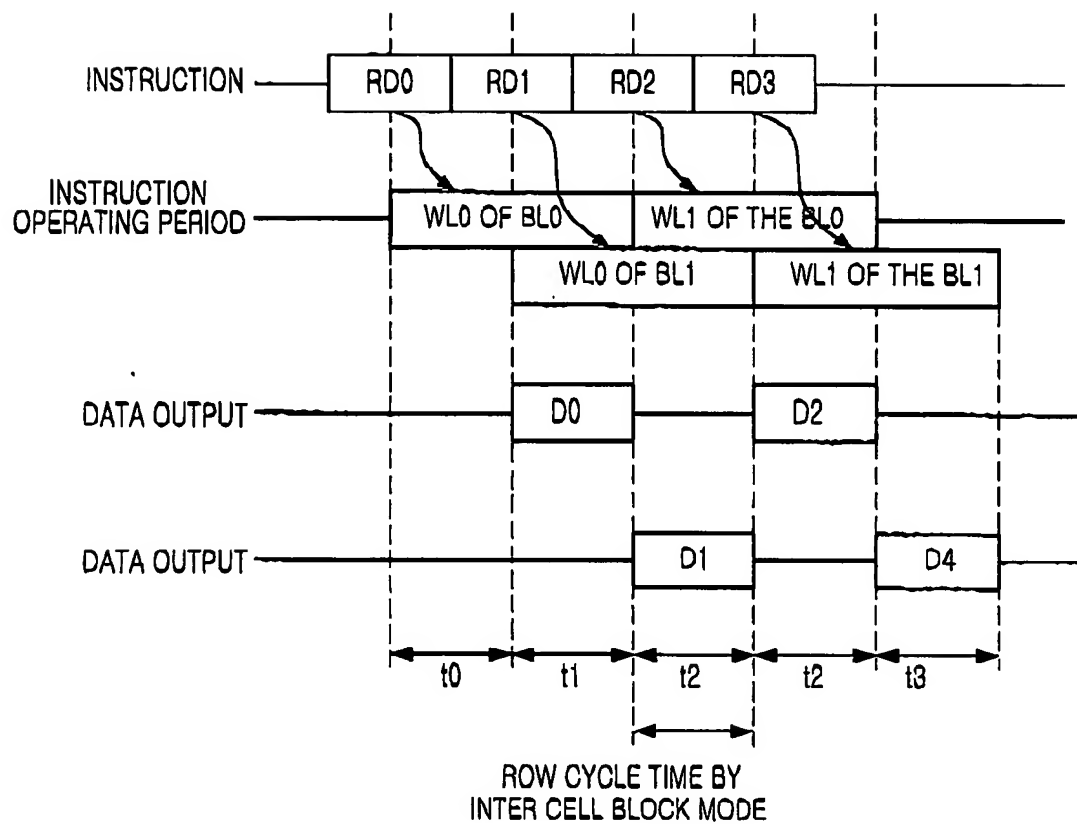


FIG. 28

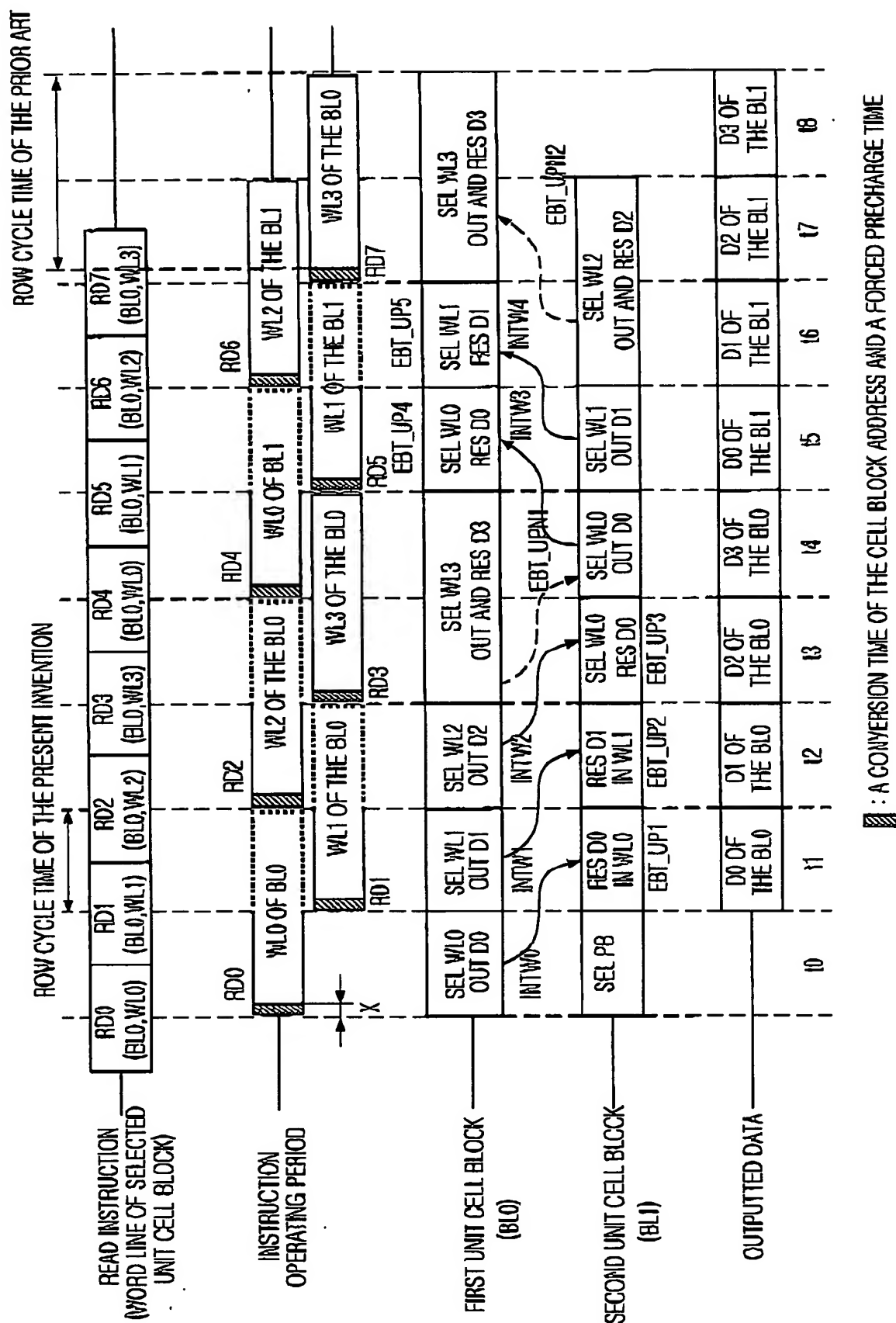


FIG. 29

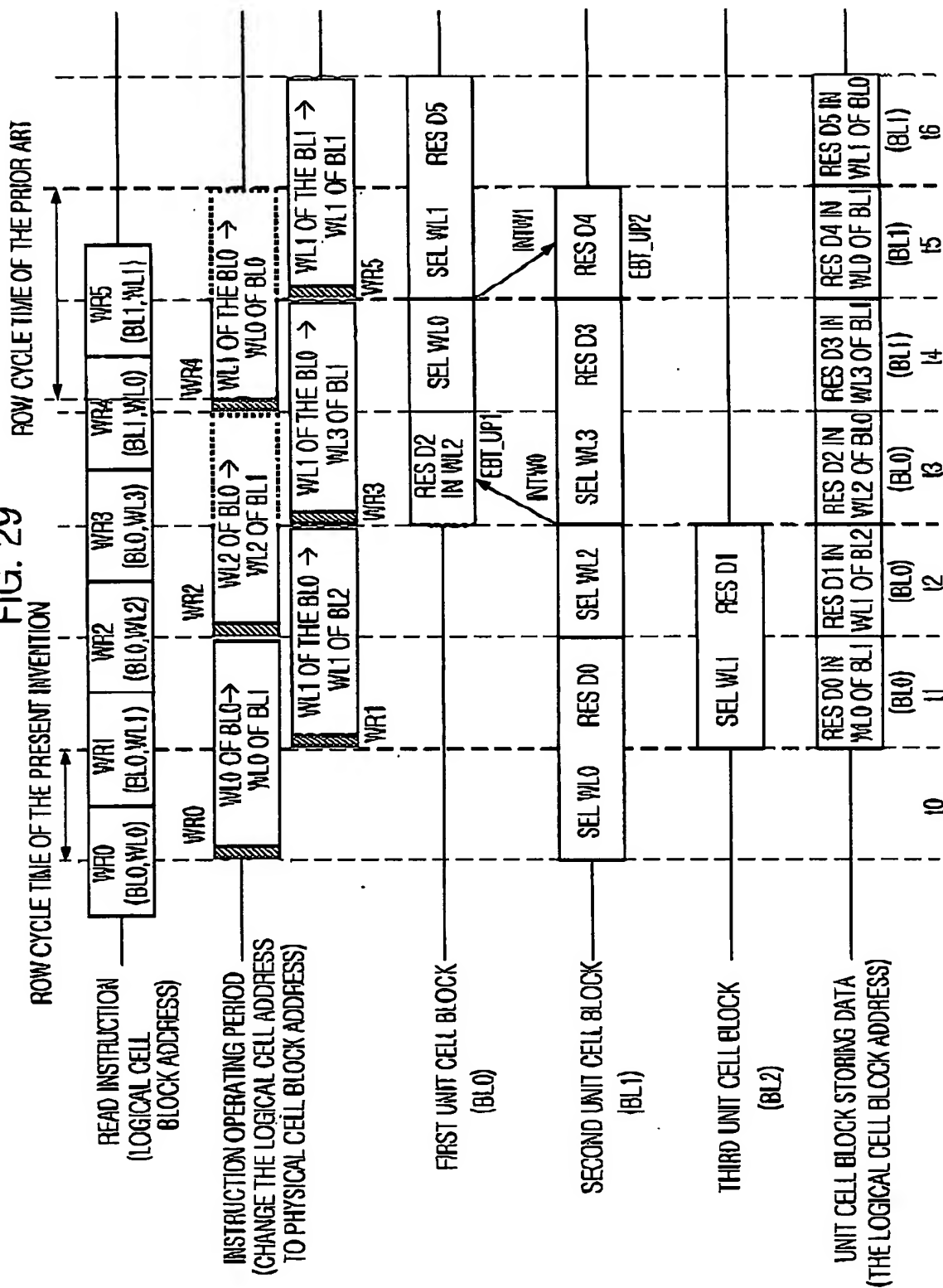


FIG. 30

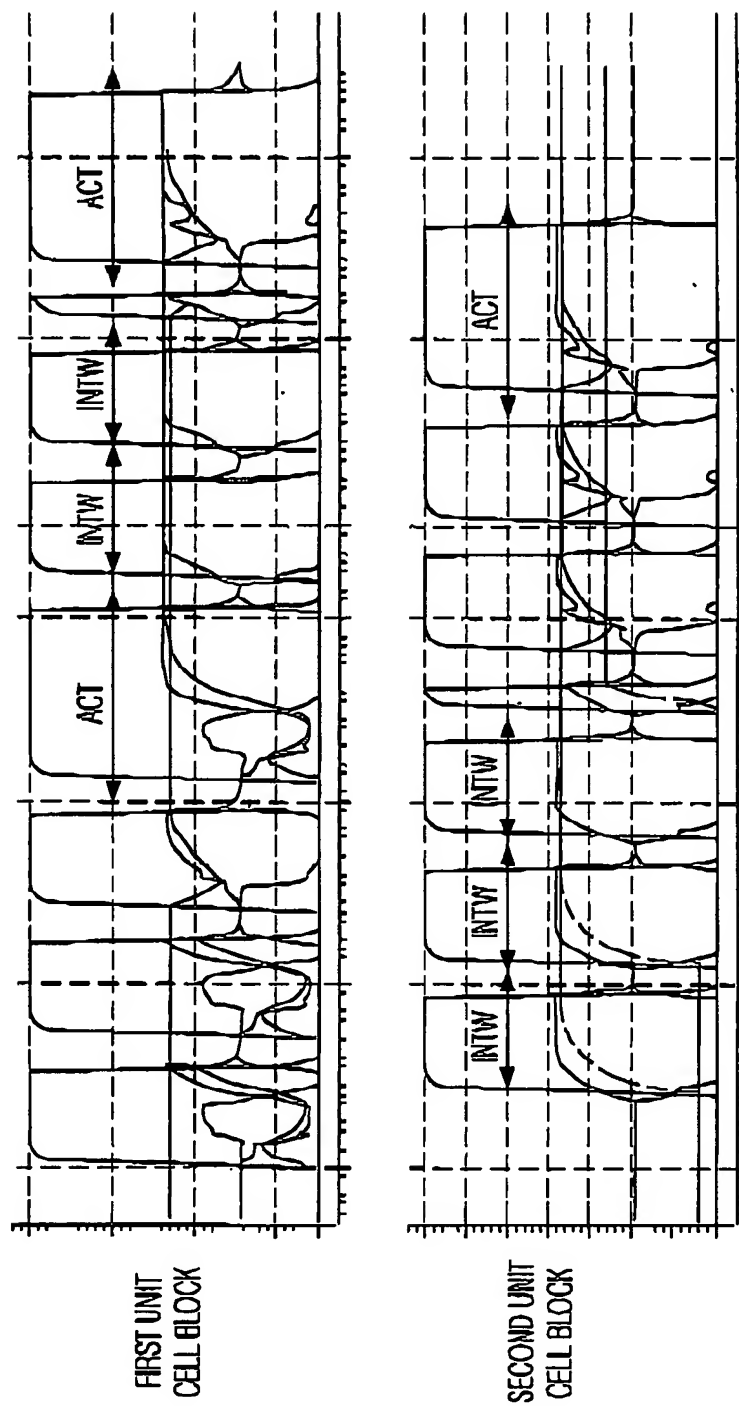


FIG. 31

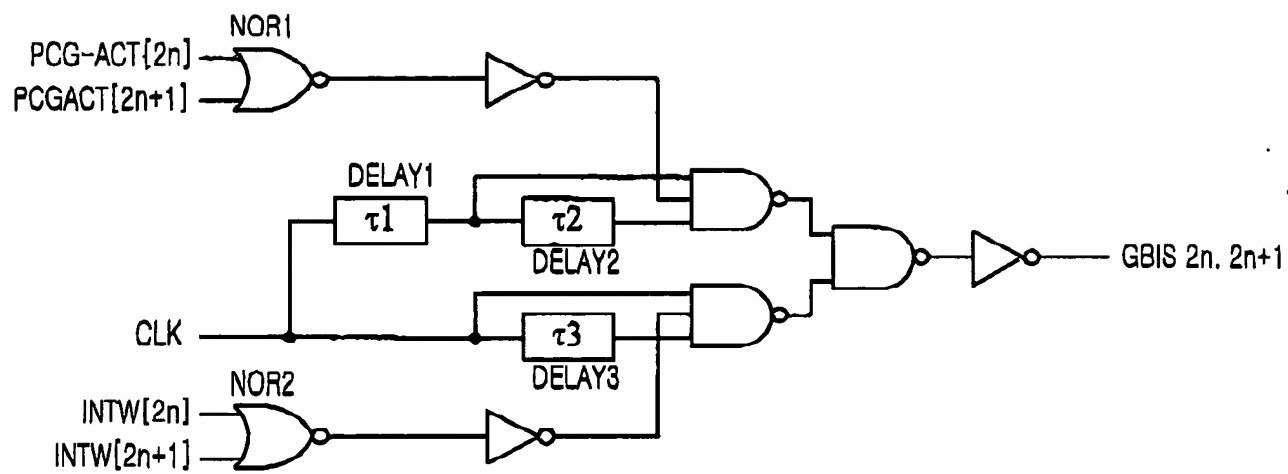


FIG. 32

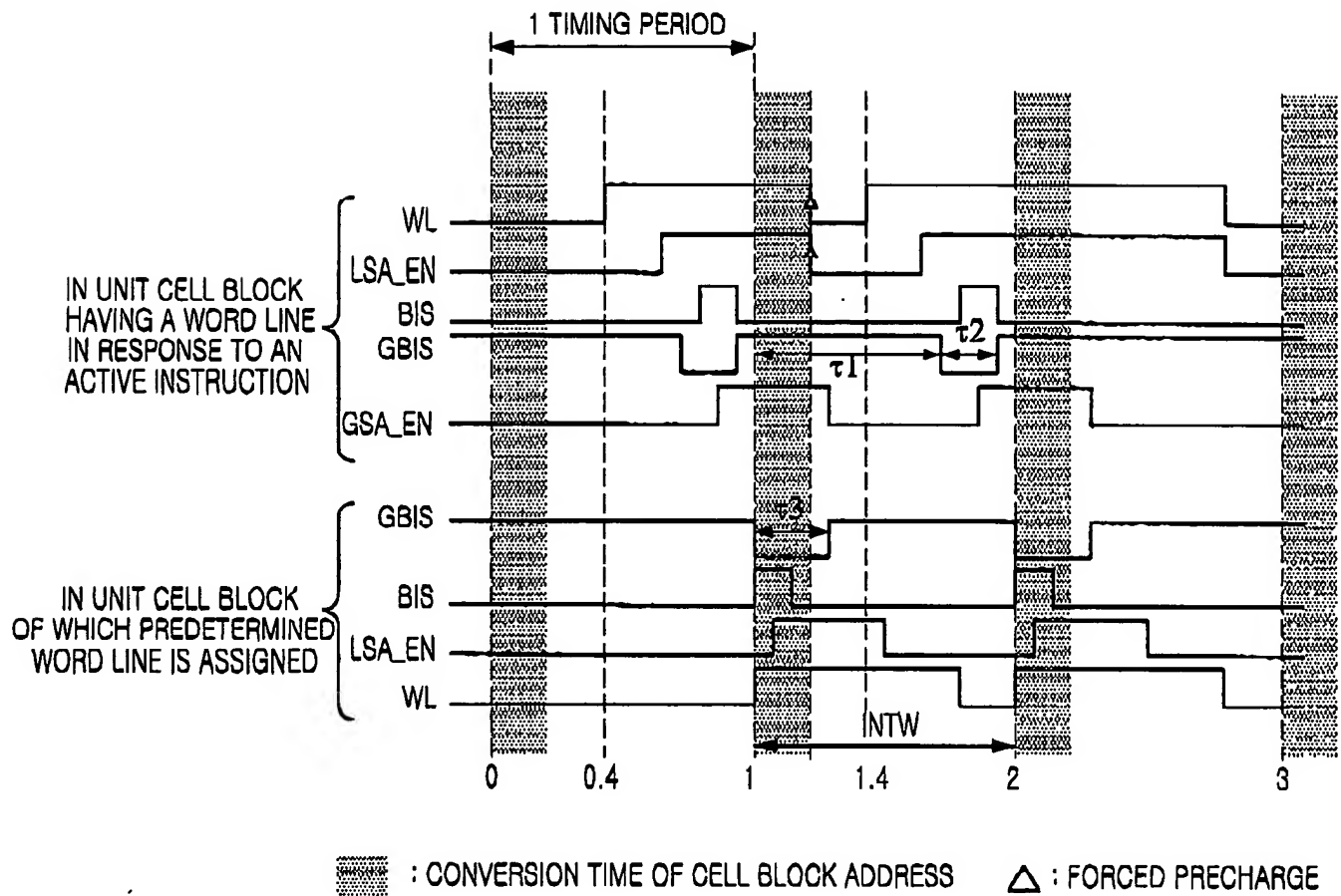


FIG. 33

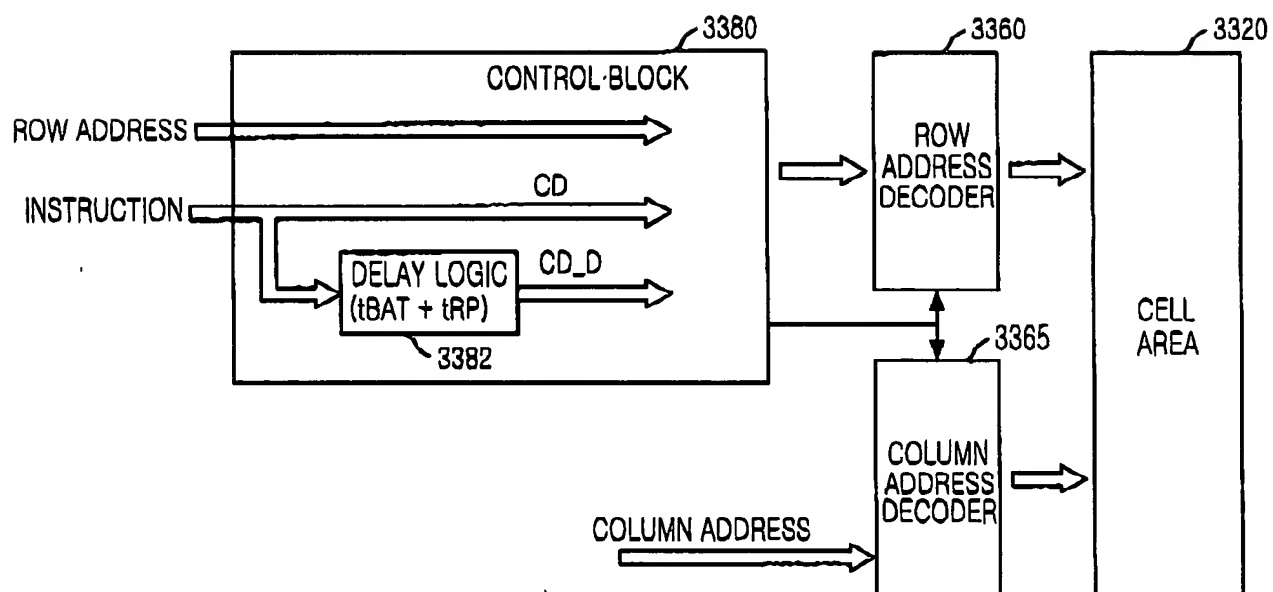


FIG. 34

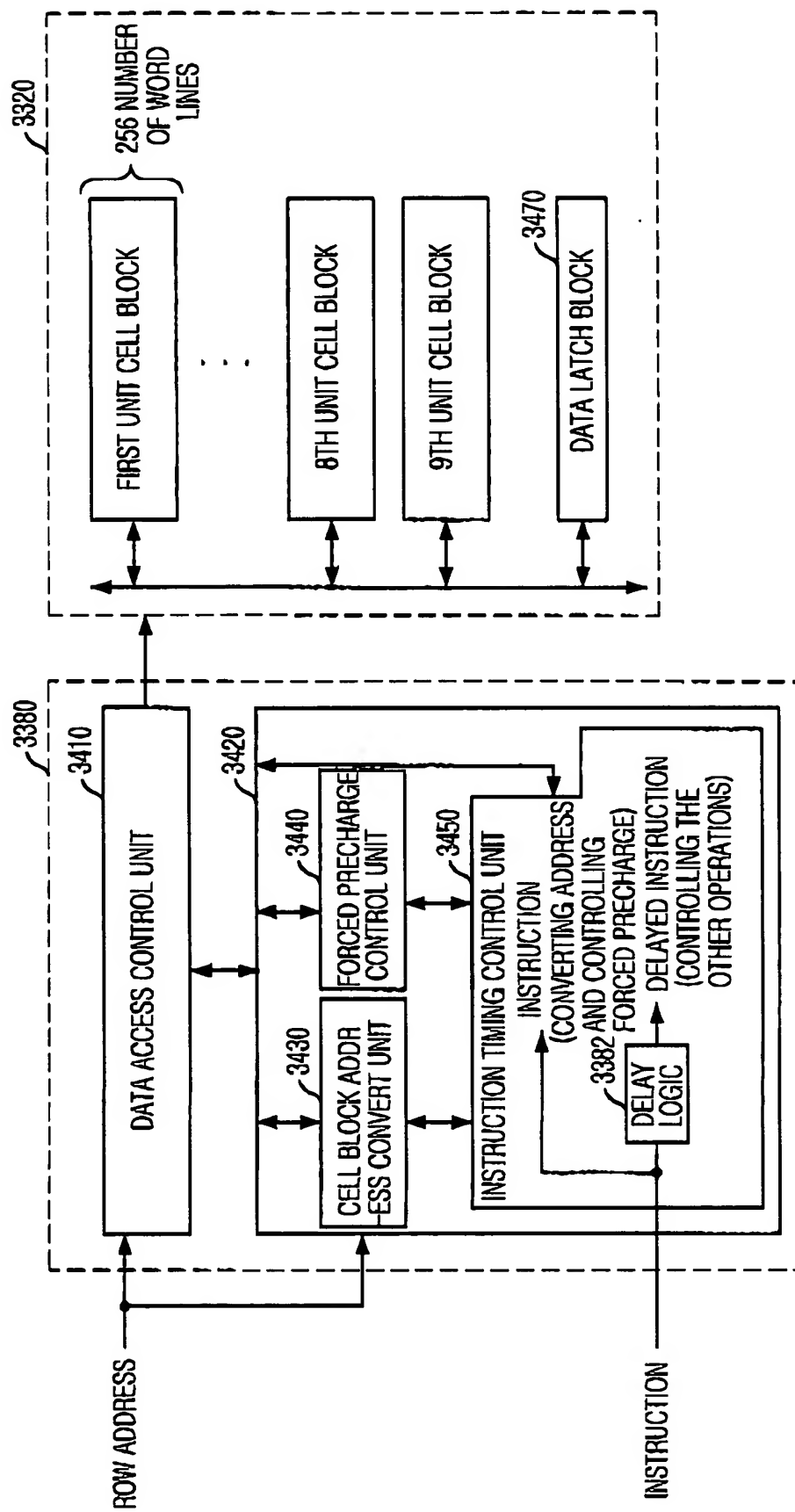


FIG. 35

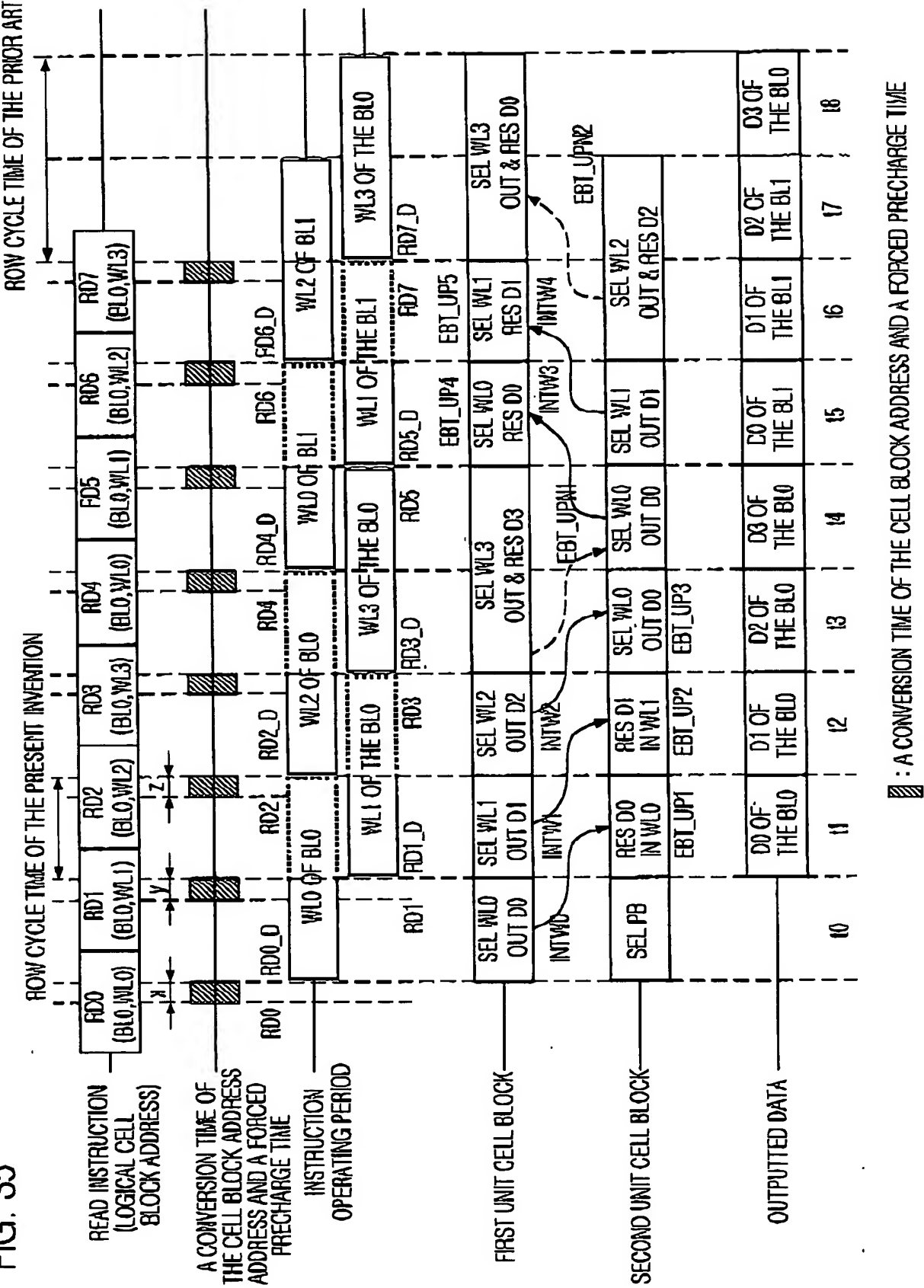
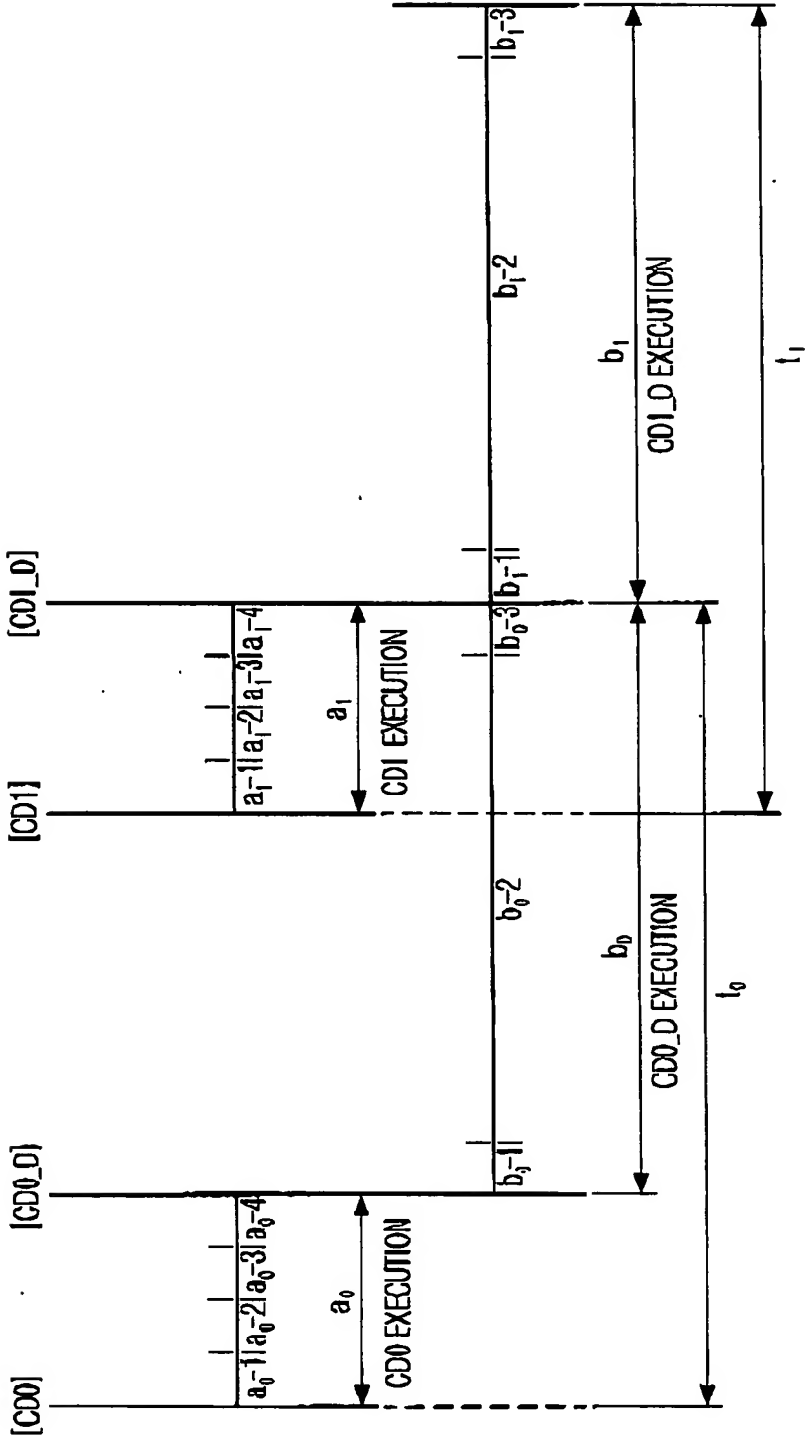


FIG. 36



$b_0 + b_1$ (IRC) : ROW CYCLE TIME OF THE PRIOR ART
 b_0 1/2(IRC) : ROW CYCLE TIME OF THE PRESENT INVENTION